

Percentage increase in the price and number of units sold of an item over a period of 5 years



Note: All the values are the increase over previous years. In 2014, the price of the item was \$2000 and the number of units sold was 50,000.

Sales (by value) = (price) * (number of units sold)

What was the percentage increase in the price of an item from 2014 to 2016?

- Ops:
- A. 1.1024
 - B. 1.38
 - C. 0.38
 - D. 0.1024

Reset

$$5) \% \text{ increase} = \frac{2760 - 2000}{2000} = \frac{760}{2000} = 0.38$$

Ans C

- 1) Price in 2014 = 2000
- 2) % increase in price from 2014 to 2016:
15% ↑ in 2015
20% ↑ in 2016

$$3) \text{ Price in 2015} = 2000 + (15\% \text{ of } 2000)$$

$$\Rightarrow 2000 + \frac{15}{100} \times 2000 = 2000 + 300 = 2300$$

$$4) \text{ Price in 2016} = 2300 + (20\% \text{ of } 2300)$$

$$2300 + \frac{20}{100} \times 2300 = 2300 + 460 = 2760$$



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Stop





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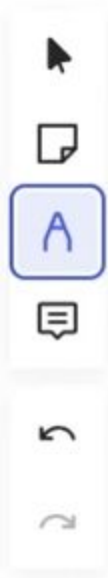


Ques.

? = 

a.  b.  c.  d. 



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Q 27. Let M and N be two events such that $P(M) = 7/12$, $P(N) = 9/12$ and $P(M \cup N) = 1$. What is the probability of occurrence of event M if event N has already occurred?

Ops: A. 1/3

Q 27 B. 4/9 Let M and N be two events such that $P(M) = 7/12$, $P(N) = 9/12$ and $P(M \cup N) = 1$. What is the probability of occurrence of event M if

C. None of the mentioned options

Ops: D. 5/9

Reset

$$P(M|N) = \frac{P(M \cap N)}{P(N)} = \frac{4/12}{9/12} = \underline{\underline{4/9}}$$

$$P(M \cup N) = P(M) + P(N) - P(M \cap N)$$
$$1 = \frac{7}{12} + \frac{9}{12} - P(M \cap N)$$

$$1 = \frac{16}{12} - P(M \cap N)$$

$$P(M \cap N) = \frac{16}{12} - 1 = \frac{4}{12}$$



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Ques.

These two Grids follow the same rule

+	+	+
▲	■	●
+	+	+

Which of these groups follow the same rule?

~~①~~

■	●	▲
+	+	+
+	+	+

②

+	+	+
●	■	▲
+	+	+

~~③~~

+	+	+
■	●	▲
+	+	+

~~④~~

+	+	+
+	+	+
+	+	+

Ans ② & ③
are following
the same
rule.

First row &
last row has
+ in all the
cells.



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o+ 🔍 👤 Stop

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Q 29. Harish, a bank officer, invests \$7600 per month. He spends 50% of it on stock market and 40% of the remaining on cryptocurrency market. Out of the remaining amount, he invests in mutual funds. What amount does he invest in mutual funds?

- Ops: A. \$2280
B. \$2340
C. \$2250
D. \$2160

Reset

→ \$7600
→ 50% stock market
→ rem. 40% crypt
→ rem. mutual fund.

(stock) 50% of 7600 = $\frac{50}{100} \times 7600 = 3800$
(crypt) 40% of 3800 = $\frac{40}{100} \times 3800 = 1520$
Rem. amt = 3800 - 1520 = 2280



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Frame 52/52

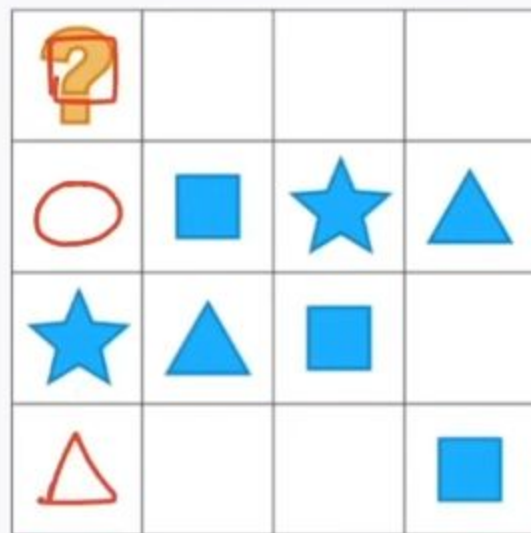


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Ques.



- a.  b.  c.  d. 



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Ques.) In 2020, the transportation cost of a bike was 25% of its manufacturing cost. From 2020 to 2021, its manufacturing cost increased by 25%. The transportation cost in 2021 was 40% of the manufacturing cost in that year.

$$25\% \text{ of } M \\ = \frac{25}{100} \times M = 0.25M$$

By what **percentage** should the total cost in **2021** be reduced to bring it back to the total cost in **2020**?

$$\text{Reduction} = TC_{2021} - TC_{2020}$$

[Note: Total cost = Manufacturing cost + Transportation cost]

Options:

- A. 28.57%
- B. 18.83%
- C. 22.36%
- D. 19.64%

$$TC_{2020} = M + 0.25M = 1.25M$$

$$\text{Red} = 1.75M - 1.25M \\ = 0.50M$$

$$TC_{2021} = [M + 0.25M = 1.25M]$$

$$\% \text{ reduc}^n = \\ \Rightarrow \frac{0.50M}{1.75} \times 100 \\ \Rightarrow \frac{50}{1.75} \times 100 \\ = 28.57\%$$

Ans (A) 28.57%

$$0.40 \times 1.25M = 0.50M$$

$$= 1.25M + 0.50M$$

$$TC = 1.75M$$



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Ques.



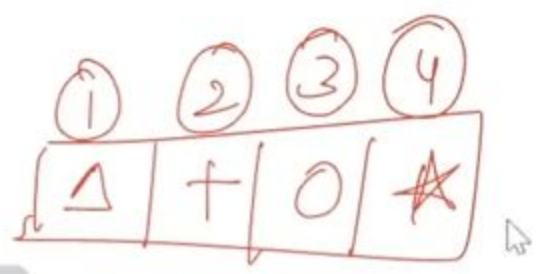
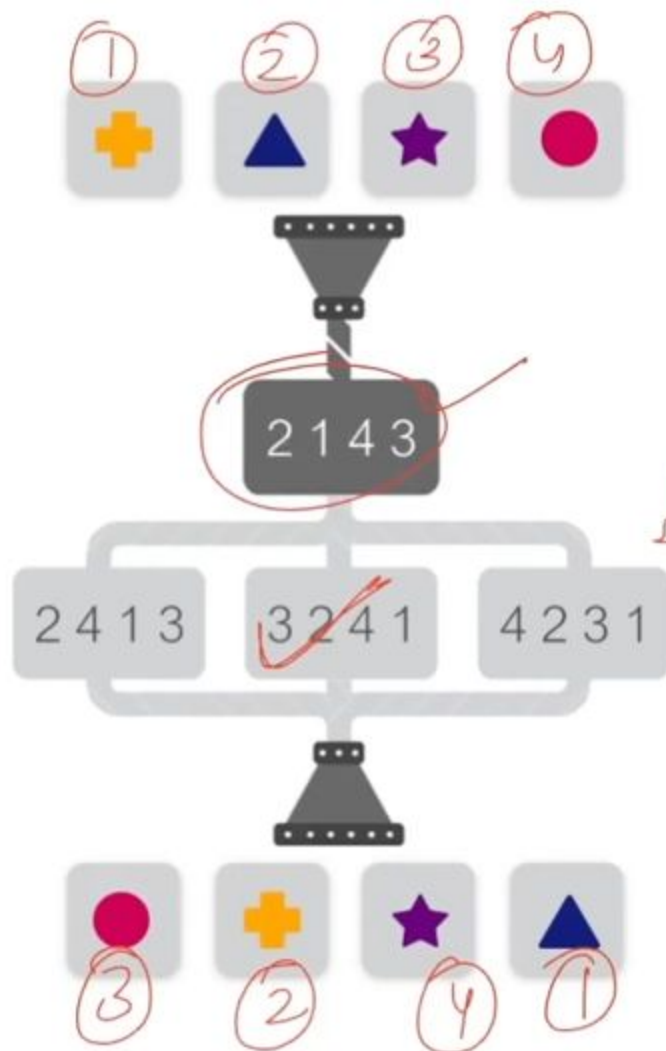
? = ○



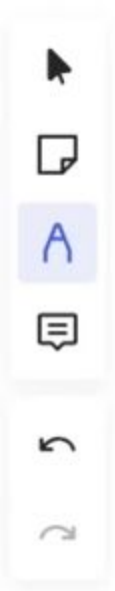
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Ans → 3 2 4 1



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Ques.) The table below gives the number of students in each class and the percentage of students in the class who like Hockey, Baseball, and Table Tennis. Study the table carefully and answer the question that follows.

Class	Number of Students	Hockey (%)	Baseball (%)	Table Tennis (%)
8	80	30%	25%	45%
9	75	40%	20%	40%
10	60	25%	25%	50%
11	80	40%	30%	30%
12	90	10%	30%	60%

No. of student like hockey in class 8 = $\frac{30}{100} \times 80$
= 24

No. of students like TT in class 12 = $\frac{60}{100} \times 90$
= 54

The number of students who like Hockey in Class 8 is what percentage of the number of students who like Table Tennis in Class 12?

Options:

- A. 40%
- B. 44.44%
- C. 50%
- D. 55%

Ans (B)

$\frac{24}{54} \% = \frac{24}{54} \times 100$
= $\frac{4}{9} \times 100 = \frac{400}{9} \% = 44.44\%$



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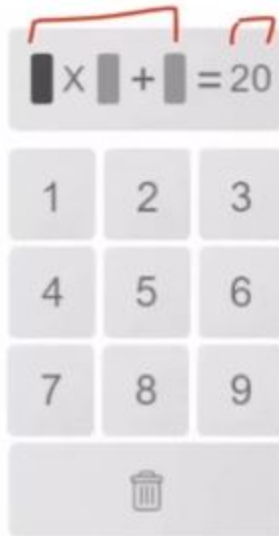
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Ques.

Problem Statement: You're giving a mathematical statement and you need to create a correct combination of digits, to make LHS = RHS. Note : One Digit may only be used once, in some cases the all the digits may not be available



$$\begin{array}{r} 4 \\ \hline \end{array} \times \begin{array}{r} 3 \\ \hline \end{array} + \begin{array}{r} 8 \\ \hline \end{array} = 20$$

$$\times \quad \begin{array}{r} \textcircled{5} \\ \hline \end{array} \times 3 + \begin{array}{r} \textcircled{5} \\ \hline \end{array} = 20 \times$$

- $4 \times 3 + 8 = 20 \checkmark$
- $2 \times 9 + 2 = 20 \times$
- $7 \times 2 + 6 = 20 \checkmark$
-

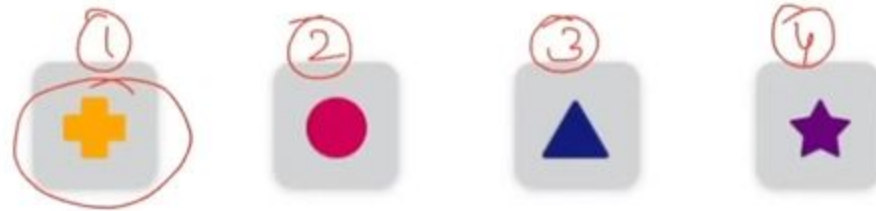


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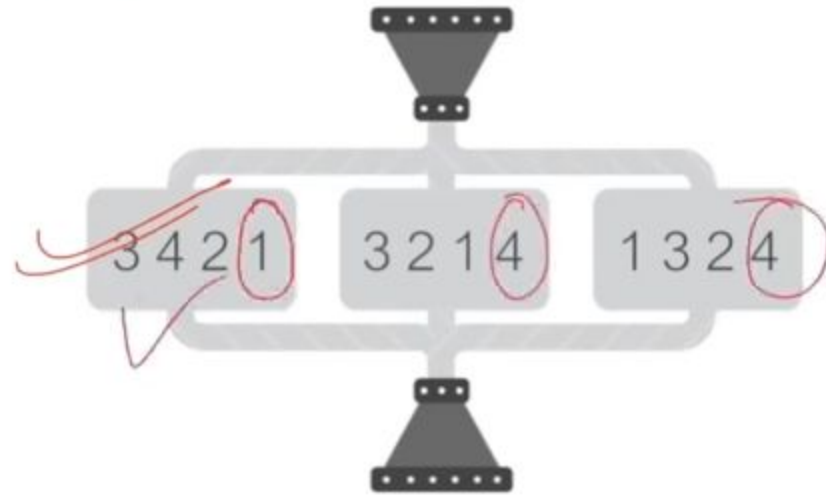
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i/p

Ans :- 3421



Codes



o/p

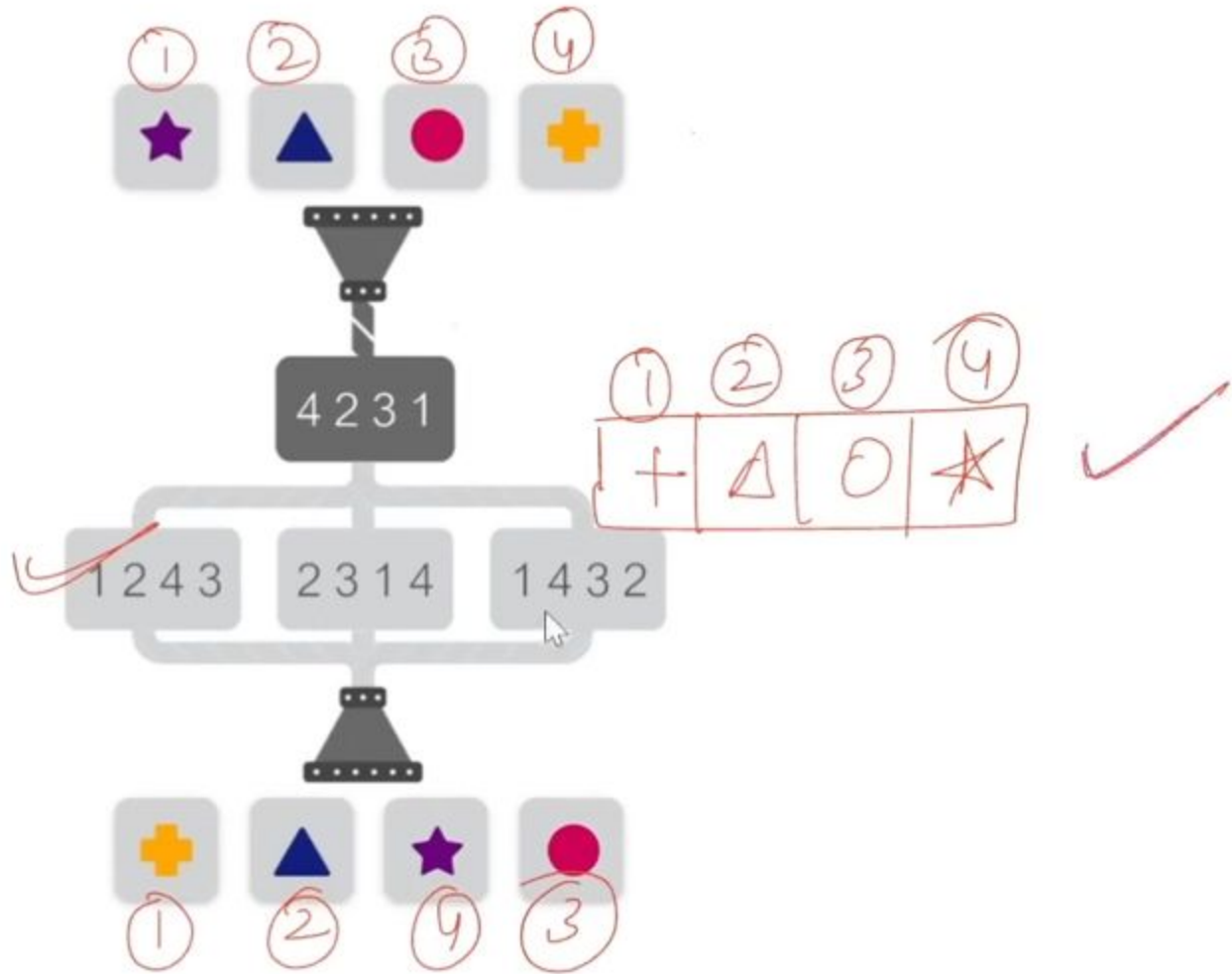


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Ans :- 1243



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Ques.) A pipe can fill a tank in 12 hours, while a leak which is at one-sixth the height of the tank (from bottom) can empty upto that part in 5 hours. If both are opened simultaneously and initially the tank is full, then when will it be one-sixth full?

- A. 09 hours
- B. 08 hours
- C. 10 hours
- D. 12 hours

$$\text{Filling Rate} = \frac{1}{12} \text{ per hour}$$

$$\text{Emptying Rate} = \frac{1}{5} \text{ per hour (for } \frac{1}{6} \text{ of the tank)}$$

Leak empties the tank at a rate of $\frac{6}{5}$ per hr.

$$\begin{aligned} \text{Net Drainage Rate} &= \text{Filling Rate} - \text{Emptying Rate} \\ &= \frac{1}{12} - \frac{6}{5} \end{aligned}$$

$$\Rightarrow 1 - \frac{1}{6} = \frac{5}{6} \text{ of the tank.}$$

$$\frac{5}{6} = t$$



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Ques.

		▲	
?		✳	■
		□	
△	■	○	★

? = ○

- ~~a.~~ ■ ~~b.~~ ▲ c. ● ~~d.~~ ★



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Ques.) Jason rows a boat at 13 km/hr in still water. If the river is running at 3 km/hr and it takes him to row to a place and back in 1 hour 30 minutes, the how far is the place from him?

- A. $120/13$ km
- B. $113/12$ km
- C. $132/13$ km
- D. $120/7$ km



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Ques. Jason rows a boat at 13 km/hr in still water. The river is running at 3 km/hr and it takes him to row to a place and back in 1 hour 30 minutes, the how far is the place from him?

- A. 120/13 km
- B. 113/12 km
- C. 132/13 km
- D. 120/7 km

speed of Jason in still water = 13 km/hr
speed of river current = 3 km/hr
Total time for round trip = 1 hr 30 min. = $\frac{3}{2}$ hrs.

Speed :

* speed while going = $13 + 3 = 16$ km/hr
* speed while return = $13 - 3 = 10$ km/hr

Time : $\frac{d}{16} + \frac{d}{10} = \frac{3}{2} \Rightarrow \frac{10d + 16d}{160} = \frac{3}{2}$

$$\frac{13d}{80} = \frac{3}{2}$$

$$26d = 240$$

$$d = \frac{240}{26} = \frac{120}{13} \text{ km}$$

$$S = \frac{D}{T}$$

$$T = \frac{D}{S}$$

Ans



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Ques.) If $p:q = q:r = 7:13$, then find $p:q:r$?

Options:

A. 121: 143: 169

B. 36: 78: 169

✓ C. 49: 91: 169

D. 144: 156: 169

$$p:q = q:r = 7:13$$

$$p:q = 7:13 \quad \text{and} \quad q:r = 7:13$$

$$\text{Let } q = 7x$$

$$\bullet \text{ From } p:q = 7:13, \quad p = \frac{7}{13}q = \frac{7}{13} \times 7x = \frac{49x}{13}$$

$$\bullet \text{ From } q:r = 7:13, \quad r = \frac{13}{7}q = \frac{13}{7} \times 7x = 13x$$

$$p:q = 7:13$$

$$\frac{p}{q} = \frac{7}{13}$$

$$p = \frac{7}{13}q$$

$$p:q:r = \frac{49x}{13} : 7x : 13x$$

$$= \frac{49x}{13} \times 13 : 7x \times 13 : 13x \times 13$$

$$= 49x : 91x : 169x$$

$$= \underline{\underline{49 : 91 : 169}}$$

Ans (C)



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Ques.

- a.  b.  c.  d. 



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$$\text{Price} \times \text{Consumption} = \text{Exp}$$

Question: The price of sugar is increased by 30% due to this a woman purchase 12 kg less sugar so that her expenditure will increase by 10% only. Find her original consumption.

A. 26

C. 27

B. 28

D. 20

$$\frac{13 \times 6}{78} \text{ units}$$

30%

78 Kgs

100

130

2

= 12 Kg

6 Kgs

100

110

78 Kg

$$\frac{F}{I}$$

$$\frac{P_f}{P_i} \times \frac{C_f}{C_i} = \frac{E_f}{E_i}$$

$$= \frac{130}{100} \times \frac{C_f}{C_i} = \frac{110}{100}$$

$$\frac{C_f}{C_i} = \frac{11}{13}$$

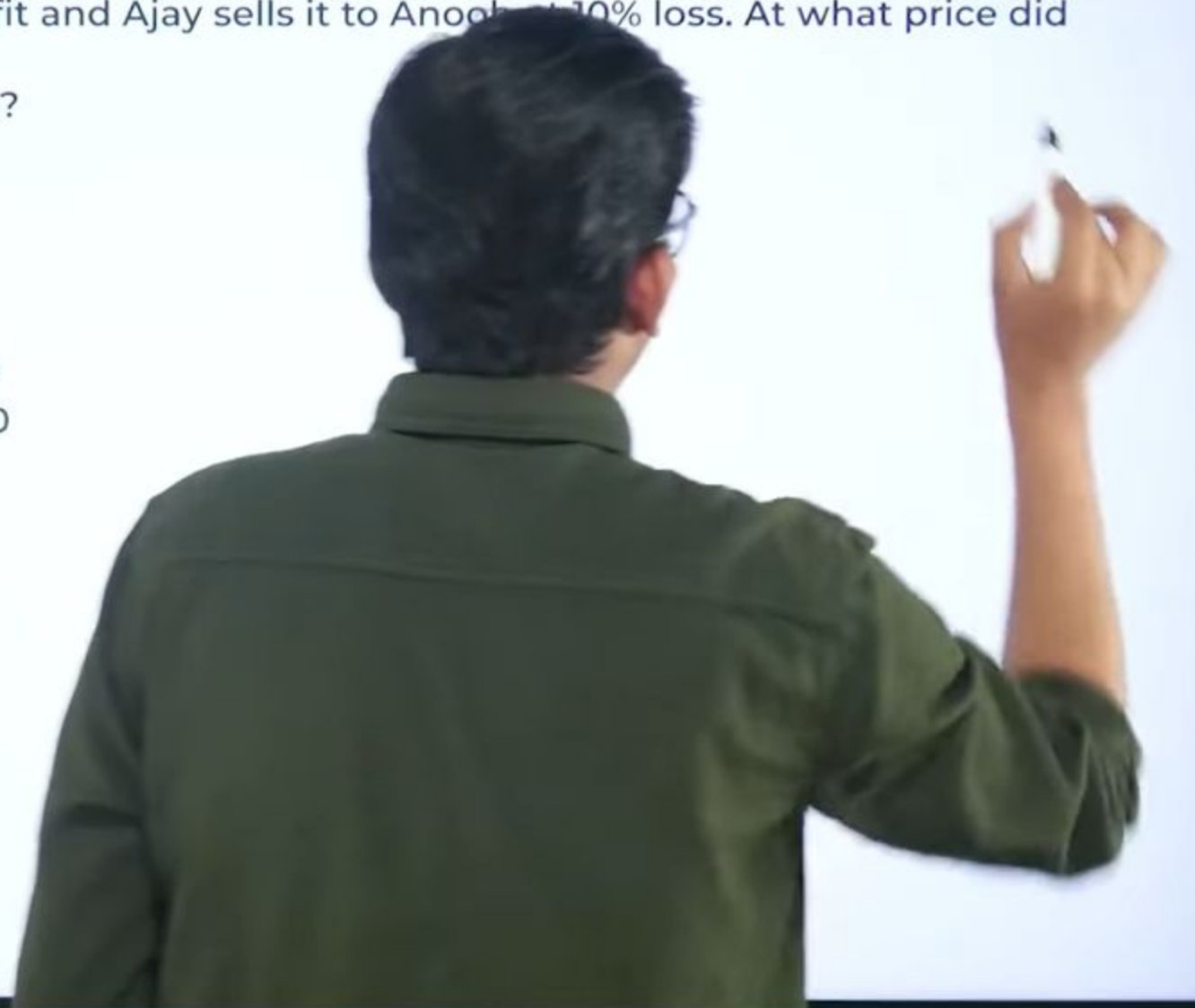
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Question: Ajith sells a table to Ajay at 10% profit and Ajay sells it to Anoop at 10% loss. At what price did Ajith purchase the table if Anoop paid Rs.2178?

- A. 2404
- C. 2700

- B. 2188
- D. 2200



Question: How many factors of $2^4 * 5^3 * 7^4$ are odd numbers?

$$\boxed{2^4} \times 5^3 \times \boxed{7^4} = 2^a \times 5^b$$

$$\underline{a = 0, 1, 2, 3, 4}$$

a should be only

$$b = \underline{0, 1, 2, 3}$$

$$c = \underline{0, 1, 2, 3, 4}$$

20 ways

A. 24

C. 27

B. 28

D. 20

Total no of factors.

$$1 \times 4 \times 5$$

=



$$P = I \times T$$

Question: R and company has two directors, X and Y, who have invested Rs. 1,25,000 and 1,00,000 respectively. X is the working partner and hence takes 5% of the profit as his salary. Find X's share of the profit, if their annual profit is Rs. 72,000.

A. Rs. 40,725

Salary of

B. Rs. 42500

C. Rs. 41600

D. Rs. 51000

Inv. →

time

$$\begin{array}{c} X \qquad Y \\ \hline 5 \qquad 4 \\ \hline 1 \qquad 1 \end{array}$$

$$\begin{array}{c} 5 \qquad 4 \\ \hline 95 \times 400 \\ \hline 38000 \end{array}$$

$$3600 + \frac{5}{9} \times \frac{95}{100} \times 72000$$

5% + $\frac{5}{9}$ of 95% of Profit

Question: When x is subtracted from each of 19, 28, 55 and 91, the numbers so obtained in this order are in proportion. What is the mean proportion between $(x + 9)$ and $(2x + 11)$

A. 24

C. 27

B. 28

D. 20

$$M.P = \sqrt{a \times b}$$

$$= \sqrt{16 \times 25}$$

20

 $x =$

$$= \frac{4 \times 19 - 1 \times 55}{4 - 1}$$

$$= \frac{21}{3}$$

19, 28, 55, 91

~~9~~ ~~36~~

1 : 4



Question: A certain sum of money amounts to Rs. 2,420 in 2 years and Rs. 2,662 in 3 years at the same rate of compound interest, compounded annually. The rate of interest per annum is:

- A. 10
C. 21

- B. 14
D. 20

Handwritten solution on a whiteboard:

$$P : A_1$$

$$10 : 11$$

$$I = \frac{1}{10} \times 100 = 10\%$$

The whiteboard also shows a diagram with variables P and A_1 in circles, and A_2 written above a box containing 2420 . Below this, the calculation $\frac{1}{10} \times 100 = 10\%$ is written, with the final answer 10% circled.

Question: In 1978, a kg of paper was sold at Rs25/-. If the paper rate increases at 1.5% more than the inflation rate which is 6.5% a year, then what will be the cost of a kg of paper after 2 years?

A. Rs. 24.68

B. Rs. 28.24

C. Rs 27.84

D. Rs. 29.16

P % increase =

$$\text{After } n \text{ years} = O.P \times (100 + P)^n$$

$$= (1.5 + 6.5) = 8\%$$

After 2 yrs Rs.

$$\frac{100}{100} \times$$

$$\frac{108}{100} \times \frac{108}{100}$$

Rs. 29.16

$$= \frac{11664}{100 \times 100}$$

Question: The average age of 10 members in a committee is increased by 3 years when two men whose ages are 40 years and 35 years are replaced by two new men. Find the average age of two new men.

- B. 45
D. 40

Handwritten solution:

$$60 + 30N \text{ years}$$

The number 60 is enclosed in a box, and the expression $30N \text{ years}$ is also enclosed in a box. A plus sign is written between the two boxes. Above the 60 box, there are two curved lines. To the right of the $30N \text{ years}$ box, there is a double-headed arrow pointing left towards the plus sign. Above the 10×3 box, there is a double-headed arrow pointing left towards the plus sign.

Question: How many numbers lying between 9 and 1000 can be formed with the digits 0, 3, 5, 7 and 9. If the digits can be repeated

0, 3, 5, 7, 9

20 numbers.

A. 125

C. 127

$$4 \times 5$$

B. 128

D. 120

$$4 \times 5 \times 5$$

$$10 - 99$$

$$10 - 999$$

100 numbers



Question: Arun goes to office from his home, which is 120km apart. his speed is 60km/hr. after 15 min he realized that he left his purse at home. he returns to home and now he travels at some increased speed towards his office, and reaches office on time. find the increased speed

- A. 85 km/hr
C. 90 km/hr

- B. 80 km/hr
D. 100 km/hr

Distance = Constant

$$t \propto \frac{1}{S}$$

$t \rightarrow$ $\begin{matrix} \text{I} & \text{F} \\ 2 & 1.5 \end{matrix}$

60

90

1.5

2

$\times 20$

80 km/hr

$\times 20$

3

:

4

factorial

$$5! \Rightarrow 5! = 5 \times 4 \times 3 \times 2 \times 1$$

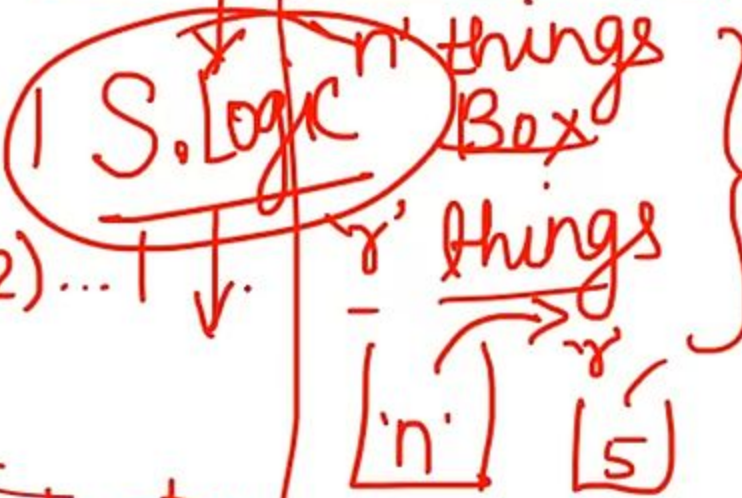
$$7! \Rightarrow 7 \times 6 \times 5 \times 4 \times \dots \times 1$$

$$108! \Rightarrow 108 \times 107 \times 106 \times \dots$$

$$n \Rightarrow n! = n \times (n-1) \times (n-2) \times \dots \times 1$$

Formula

P&C



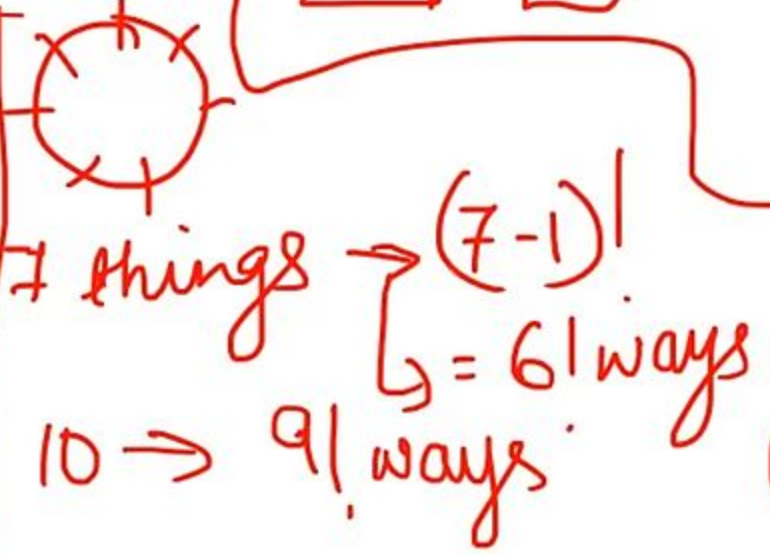
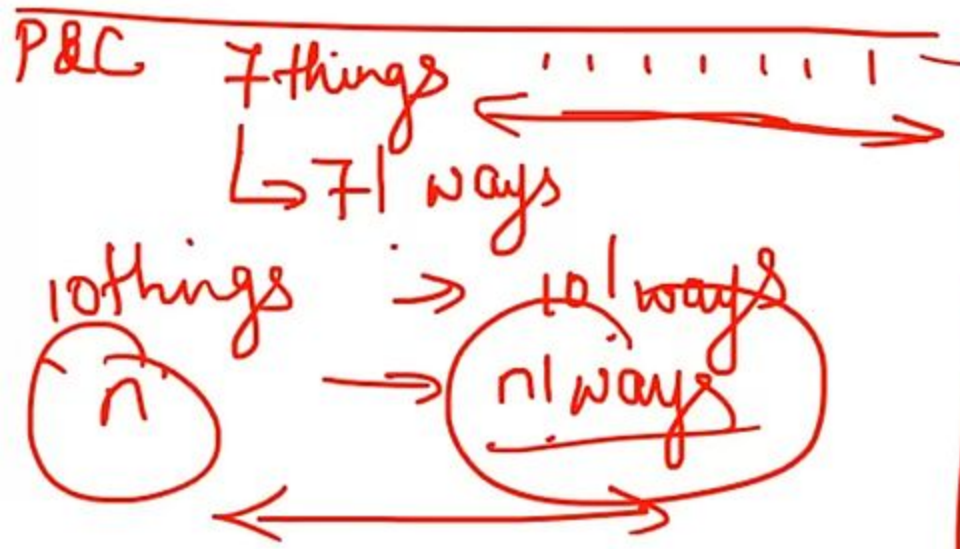
P & C \leftarrow 1) SELECT
 2) SELECT & ARRANGE

Combination = Just SELECT

$${}^n C_r = \frac{n!}{r!(n-r)!} \quad *$$

$${}^n P_r = \frac{n!}{r!(n-r)!} \times r! = \frac{n!}{(n-r)!}$$

$n P_r$



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Ques.) The table below gives the number of students in each class and the percentage of students in the class who like Hockey, Baseball, and Table Tennis. Study the table carefully and answer the question that follows.

Class	Number of Students	Hockey (%)	Baseball (%)	Table Tennis (%)
8	80	30%	25%	45%
9	75	40%	20%	40%
10	60	25%	25%	50%
11	80	40%	30%	30%
12	90	10%	30%	60%

No. of student like hockey in class 8 = $\frac{30}{100} \times 80$
= 24

No. of students like TT in class 12 = $\frac{60}{100} \times 90$
= 54

The number of students who like Hockey in Class 8 is what percentage of the number of students who like Table Tennis in Class 12?

Options:

- A. 40%
- B. 44.44%
- C. 50%
- D. 55%

Ans B

$\frac{24}{54} \% = \frac{24}{54} \times 100$
= $\frac{4}{9} \times 100 = \frac{400}{9} \% = 44.44\%$

Ques.) To solve a crime, police interrogate both Felix and Victor. Felix speaks the truth in 60% of cases, and Victor in 40% of cases. Police can catch the criminal only if at least one of them speaks the truth.

What is the probability that the police catch the criminal?

Options:

- A) 21/25
- B) 24/25
- C) 6/25
- D) 19/25

Ans (D)

1 - Comb. P(Lie)

$$P(\text{Felix (truth)}) = 60\% = 0.6$$

$$P(\text{Victor (truth)}) = 40\% = 0.4$$

$$P(\text{Felix (lie)}) = 1 - 0.6 = 0.4$$

$$P(\text{Victor (lie)}) = 1 - 0.4 = 0.6$$

$$P(\text{Both Lie}) = 0.4 \times 0.6 = 0.24$$

$$\begin{aligned} P(\text{At least one speaks truth}) &= 1 - P(\text{Both Lies}) \\ &= 1 - 0.24 = 0.76 = \frac{76}{100} = \frac{19}{25} \end{aligned}$$



Frame 1/1



Stop

Q 22. Marco invested in two schemes - \$42,000 in Scheme A for one year at a simple annual rate of 5% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 8% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops: A. \$1338
B. \$638
C. \$278
D. \$324

$$\checkmark \text{ S.I} = \frac{PRT}{100} = \frac{42000 \times 5 \times 1}{100} = 2100$$

$$\checkmark \text{ C.I} \Rightarrow A = P \left(1 + \frac{r}{n}\right)^{nt} \Rightarrow A = 14000 \times \left(1 + \frac{8}{2 \times 100}\right)^{2 \times 2} = 16378$$

$$\text{C.I} = A - P = 16378 - 14000 = 2378$$

$$\text{Difference} = 2378 - 2100 = \underline{\underline{278}}$$

Ans C

Q 22. Somesh borrowed ₹36,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

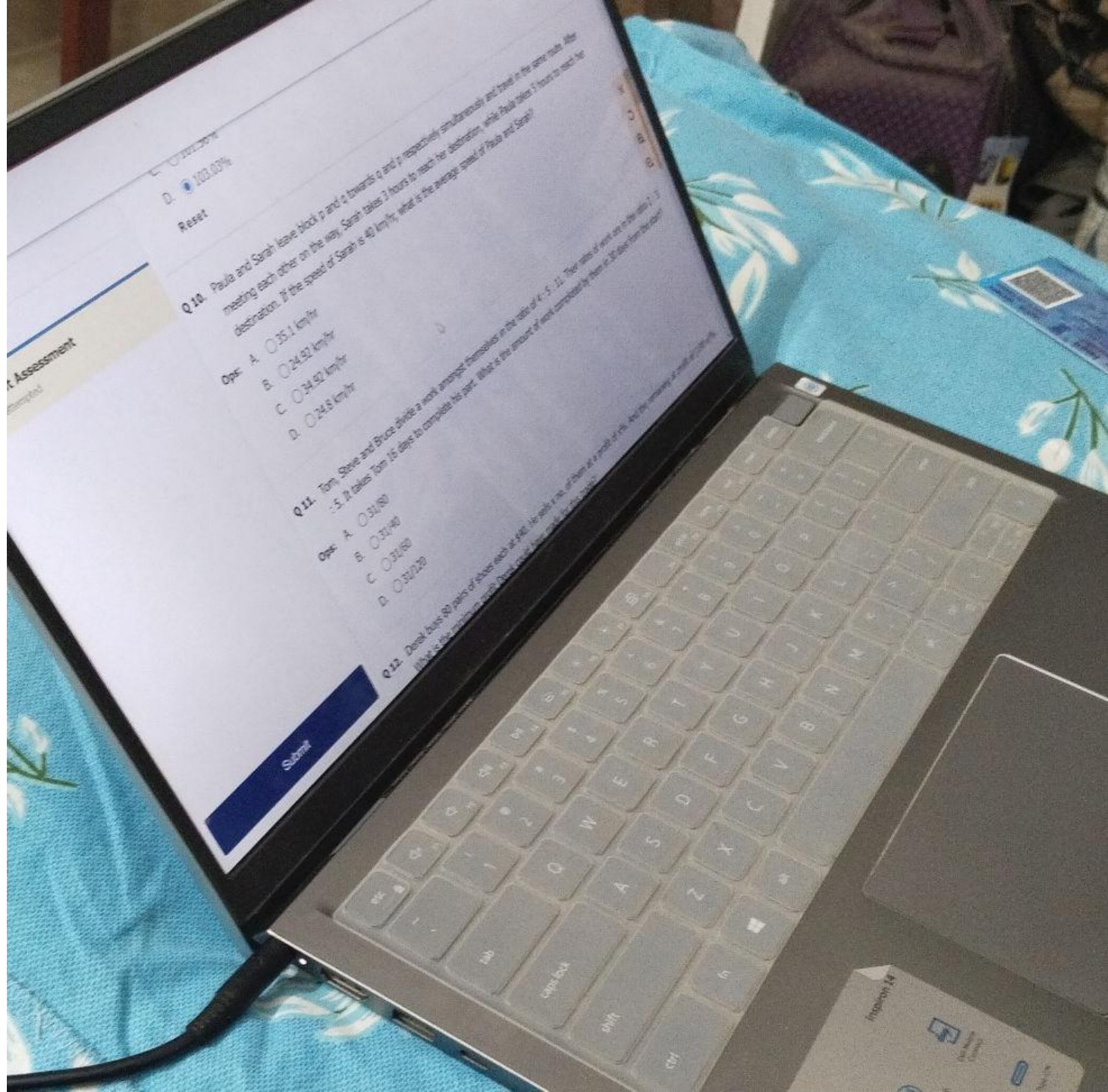
- Ops: A. ₹45,254
B. ₹47,916
C. ₹41,952
D. ₹50,578

Q 23. Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Paula takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

- Ops: A. 24.8 km/hr
B. 34.92 km/hr
C. 24.92 km/hr
D. 35.1 km/hr

Q 24. If 31 is subtracted from 2 times of a number, the answer is 9. Find the number.

- Ops: A. 20
B. 24
C. 18
D. 15



Quiz Assessment

100.00%
Reset

Q10. Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same direction. They meet each other on the way. Sarah takes 3 hours to reach her destination, while Paula takes 7 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

- Ops: A. 35.1 km/hr
B. 24.92 km/hr
C. 34.92 km/hr
D. 24.8 km/hr

Q11. Tom, Steve and Bruce divide a work amongst themselves in the ratio of 4:5:11. The ratio of work done in the ratio 1:2:3. It takes Tom 15 days to complete his part. What is the amount of work completed by Steve in 30 days from the start?

- Ops: A. 31/80
B. 31/40
C. 31/60
D. 31/20

Q12. Donald buys 80 packs of boxes each at \$10. He sells a no. of them at a profit of 20%. The ratio of work done in the ratio 1:2:3. What is the amount of work completed by Steve in 30 days from the start?

Submit

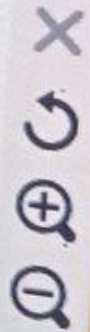
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- Ops:
- A. ₹45,254
 - B. ₹47,916
 - C. ₹41,952
 - D. ₹50,578

Q 24. If 31 is subtracted from 2 times of a number, the answer is 9. Find the number.

- Ops:
- A. 20
 - B. 18
 - C. 15
 - D. 24

Q 25. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of x litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both pipes to fill the tank is 60 hours, then find the value of x .



- A. $6 \cdot 7!$
- B. $12 \cdot 7!$
- C. $12 \cdot 8!$
- D. $6 \cdot 8!$

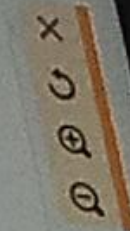
Q 08. Sara was asked to find $(7/8)^{\text{th}}$ of a number. She instead multiplied the number by $(8/7)$ and obtained an answer which was 300 more than the correct answer. Find the correct answer.

- Ops:
- A. 980
 - B. 2450
 - C. 1960
 - D. 1470

Q 09. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

- A. 26 km/hr
- B. 48 km/hr
- C. 51 km/hr
- D. 31 km/hr

Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 30,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.



B. 0.74

C. 0.9

D. 0.82

Reset

Q 11. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

Ops: A. 51 km/hr

B. 48 km/hr

C. 31 km/hr

D. 26 km/hr

Reset

Q 12. Chloe bought 2 paintings for \$45,000. If she sells first at a profit of 10% then how much percent of profit should she sell the other for, so that she makes a profit of 30% on the whole?

Ops: A. 10%

B. 35%

19. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

- A. 26 km/hr
- B. 51 km/hr
- C. 48 km/hr
- D. 31 km/hr

9. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

A. 26 km/hr

B. 51 km/hr

C. 48 km/hr

D. 31 km/hr

Martha and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Martha takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, then find the total time taken by Sarah to reach her destination. Ops: A. 5.8 hours B. 7.7 hours C. 5.1 hours D. 6.9 hours

IQ03. Martha and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Martha takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, then find the total time taken by Sarah to reach her destination.

Ops:

- A. 69 hours
- B. 5.8 hours
- C. 7.7 hours
- D. 5.1 hours

Q 04. Martha and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Martha takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, then find the total time taken by Sarah to reach her destination.

- Ops:**
- A. 5.1 hours
 - B. 5.8 hours
 - C. 7.7 hours
 - D. 6.9 hours

24. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 48 km/hr, what is the speed of Jacy?

- Answers:
- A. 26 km/hr
 - B. 51 km/hr
 - C. 48 km/hr
 - D. 31 km/hr

Q 11. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

- Ops:**
- A. 31 km/hr
 - B. 51 km/hr
 - C. 48 km/hr
 - D. 26 km/hr

C. 60

D. 80

Q 21. If 31 is subtracted from 2 times of a number, the answer is 9. Find the number.

Ops: A. 15

B. 18

C. 24

D. 20

Q 22. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x.

Ops: A. 5

B. 9

Q 14. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

- Ops:
- A. Rs. 74500
 - B. Rs. 75150
 - C. Rs. 77650
 - D. Rs. 75000

Q 15. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x.

- Ops:
- A. 10
 - B. 2
 - C. 8
 - D. 5

Q 16. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and Block P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S , 500 m from Block Q . Find the ratio of the speed of Morrie and Maryline.

Ops:

- A. 29:31
- B. 19:17
- C. 31: 29
- D. 17:19

Q 15. Find the minimum value of $(k+1/k)$, if $k>0$.

Ops:

A. 0

B. 2

C. 1

D. -2

If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

Ops:

A.

6497

B. 6487

C. None of the mentioned options

D. 6317

There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of ' x ' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x .

Q 08. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 31 : 29
 - B. 19 : 17
 - C. 29 : 31
 - D. 17 : 19

Assessment + Game Based | Latest Questions | September 2024



If Mark and James spent respectively 25% and 30% of their expenditure on others, then by what percentage was the expenditure of Clint on others less than that of combined expenditures of Mark and James on others?

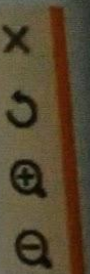
- Ops:
- A. 0.3298
 - B. 0.3777
 - C. 0.4615
 - D. 0.2708

Reset

Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 31: 29
 - B. 29 : 31
 - C. 17 : 19
 - D. 19 : 17

Reset



Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 31 : 29
 - B. 29 : 31
 - C. 17 : 19
 - D. 19 : 17

Reset

Q 04. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops: A. 11/26

Q 13. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:** A. 19 : 17
B. 17 : 19
C. 29 : 31
D. 31 : 29

Reset

Q 14. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops:** A. -9/22
B. 11/26
C. -13/22
D. 191/52

Q 15. Jacob invests \$740,000 in a savings bank account at the rate of x% compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$900,323, then find x.

- Ops:** A. 20%
B. 12%
C. 16%
D. 8%

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 29 : 31
 - B. 19 : 17
 - C. 31 : 29
 - D. 17 : 19

Q 15. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops:
- A. 0
 - B. 2
 - C. 1
 - D. -2

Q 16. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

- Ops:
- A. 6497
 - B. 6487
 - C. None of the mentioned options
 - D. 6317

Q 17. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.



01. Quant Assessment

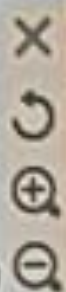
30 questions, 1 mark each

Q 01. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are x m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 750 m from Block Q. If the ratio of the speed of Morrie and Maryline is 3 : 4, then which of the following can be the value of x ?

- Ops:
- A. 3125
 - B. 2625
 - C. 2750
 - D. 2500

Q 02. Minny was asked to find $(7/5)$ th of a number. She instead multiplied the number by $(5/7)$ and obtained an answer that was 10 more than the correct answer. Find the correct answer.

- Ops:
- A. 2113
 - B. 1960
 - C. 980
 - D. 1470



Q 01. Let X and Y be two independent events. The probability that exactly one of them occur is $71/84$ and the probability of none of them occurring is $15/84$, then find the value of $P(X)/P(Y)$.

- Ops: A. 49/48
B. 7/12
C. 4/7
D. 48/49

Q 02. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are x m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 750 m from Block Q. If the ratio of the speed of Morrie and Maryline is 3 : 4, then which of the following can be the value of x ?

- Ops: A. 2625
B. 3125
C. 2750
D. 2500

Q 03. If $m : n = 9 : 7$ and $m = p + q$ and $n = p - q$, then find $(p : q) - 3$.

Assessment

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:**
- A. 29 : 31
 - B. 19 : 17
 - C. 31 : 29
 - D. 17 : 19

Q 15. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops:**
- A. 0
 - B. 2
 - C. 1
 - D. -2

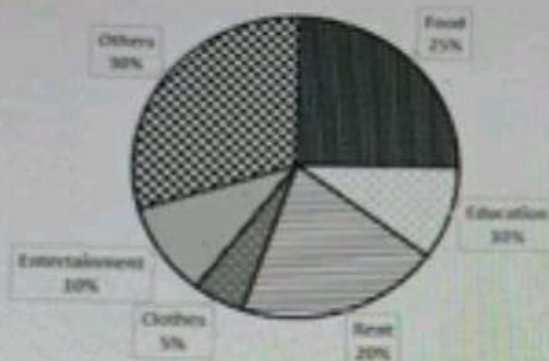
Q 16. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

- Ops:**
- A. 6497
 - B. 6487
 - C. None of the mentioned options
 - D. 6317

Q 17. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

Note: The average expenditure of the five persons Mark, John, Clint, James and Scott is \$39,000.

Breakup of Clint's Expenditure



If Mark and James spent respectively 25% and 30% of their expenditure on others, then by what percentage was the expenditure of Clint on others less than that of combined expenditures of Mark and James on others?

- Ops:
- A. 0.3298
 - B. 0.3777
 - C. 0.4615
 - D. 0.2708

Reset

Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops: A. 31: 29

Submit

Q 21. Billard, a con-man, was running along a road at 12 km/hr. He crossed a policeman moving at a speed of 15 km/hr in the opposite direction. The policeman had to continue for 8 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the policeman to catch the con-man from the time he crossed him?

- ops:
- A. 90
 - B. 72
 - C. 80
 - D. 27

22. Two numbers are selected among 1, 2, 3, 4, 5, 6, 7, 8 and 9 at random. What is the probability that their sum is odd?

- ps:
- A. 2/9
 - B. 5/9
 - C. None of the mentioned options
 - D. 4/9

Reset

23. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

- s:
- A. 15.33
 - B. 12.25
 - C. 11.67
 - D. 13.75

... complete the same task in 24 days. Christian started

C. 15

D. 18

Reset

Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective destinations. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of their speeds of Morrie and Maryline.

Ops: A. 31 : 29

B. 29 : 31

C. 19 : 17

D. 17 : 19

Q 04. Vinay borrowed ₹32,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount after 3 years.

Q 28. There are two pipes A and B connected to a tank of 500 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 8 litres/hour. If the total time taken by both the pipes to fill the tank is 80 hours, then find the value of x.

- Ops:
- A. 14.25
 - B. 16.67
 - C. 18.25
 - D. 12.33

Q 26. There are two pipes A and B connected to a tank of 500 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 8 litres/hour. If the total time taken by both the pipes to fill the tank is 80 hours, then find the value of x.

Ops: A. 14.25

B. 18.25

C. 16.67

D. 12.33

Reset

B. 0.74

C. 0.9

D. 0.82

Reset

Q 11. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

Ops: A. 51 km/hr

B. 48 km/hr

C. 31 km/hr

D. 26 km/hr

Reset

Q 12. Chloe bought 2 paintings for \$45,000. If she sells first at a profit of 10% then how much percent of profit should she sell the other for, so that she makes a profit of 30% on the whole?

Ops: A. 10%

B. 35%

- A. $6 \cdot 7!$
- B. $12 \cdot 7!$
- C. $12 \cdot 8!$
- D. $6 \cdot 8!$

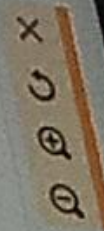
Q 08. Sara was asked to find $(7/8)^{\text{th}}$ of a number. She instead multiplied the number by $(8/7)$ and obtained an answer which was 300 more than the correct answer. Find the correct answer.

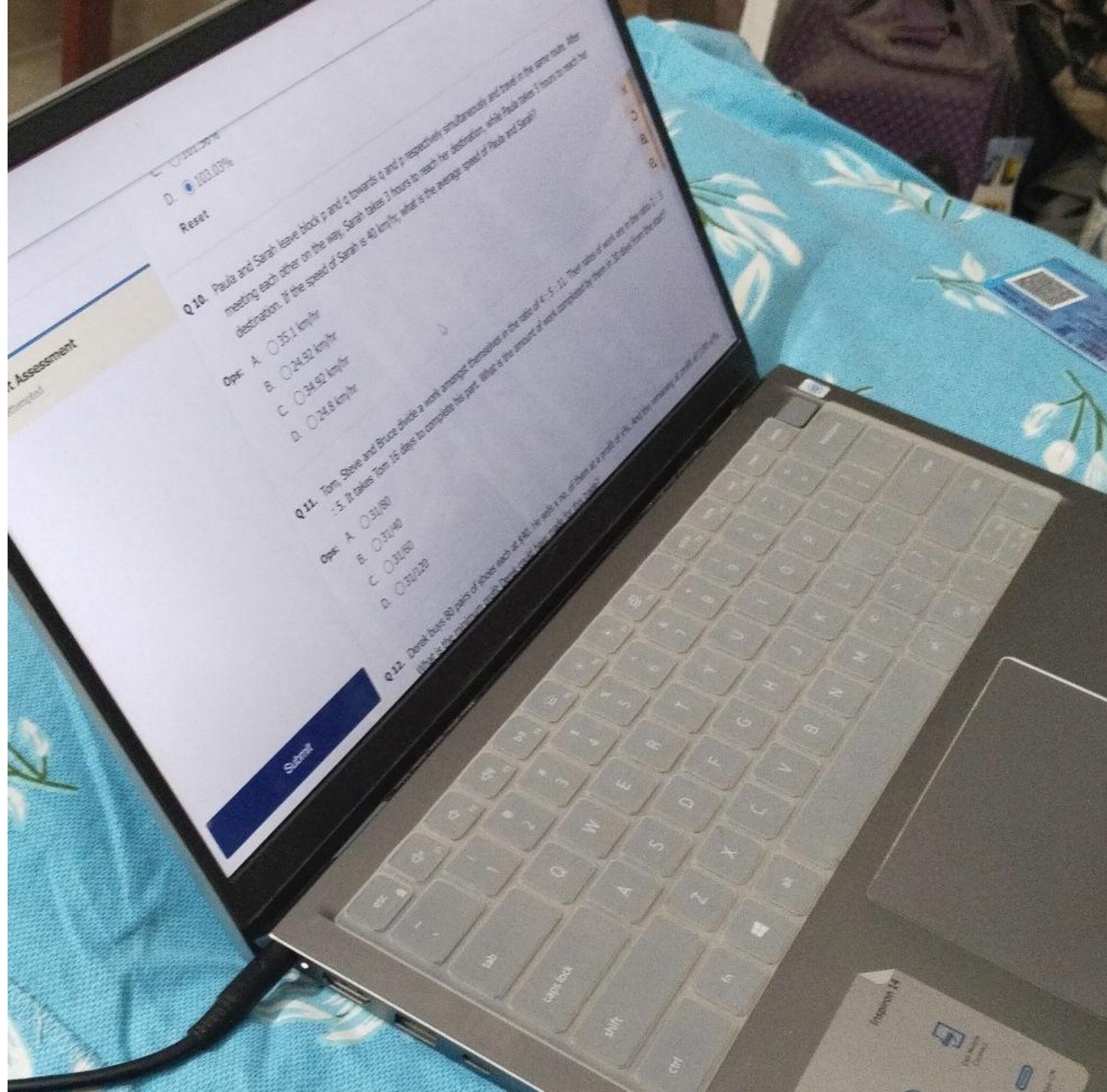
- Ops:
- A. 980
 - B. 2450
 - C. 1960
 - D. 1470

Q 09. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

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Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 30,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.





Assessment

100.00%
Reset

Q10. Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same ratio. After meeting each other on the way, Sarah takes 2 hours to reach her destination, while Paula takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

Ops: A. 35.1 km/hr
B. 24.92 km/hr
C. 34.92 km/hr
D. 24.8 km/hr

Q11. Tom, Steve and Bruce divide a work amongst themselves in the ratio of 4 : 5 : 11. Their rate of work are in the ratio 1 : 1.5 : 5. It takes Tom 15 days to complete his part. What is the amount of work completed by Steve in 20 days from the start?

Ops: A. 31/80
B. 37/40
C. 31/80
D. 37/20

Q12. Daniel buys 80 pairs of shoes each at \$40. He sells a no. of them at a profit of 20%. And the remaining of shoes are sold at 10% loss. What is the maximum profit he can make from the shoes?

Submit

- A. $6 \cdot 7!$
- B. $12 \cdot 7!$
- C. $12 \cdot 8!$
- D. $6 \cdot 8!$

formed using all the letters of word 'TAXPAYING' such that position of Y doesn't change with respect to

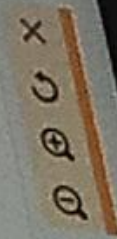
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B. 0.74

C. 0.9

D. 0.82

Reset

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Ops: A. 51 km/hr

B. 48 km/hr

C. 31 km/hr

D. 26 km/hr

Reset

Q 12. Chloe bought 2 paintings for \$45,000. If she sells first at a profit of 10% then how much percent of profit should she sell the other for, so that she makes a profit of 30% on the whole?

Ops: A. 10%

B. 35%

Q 14. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

- Ops:
- A. Rs. 74500
 - B. Rs. 75150
 - C. Rs. 77650
 - D. Rs. 75000

Q 15. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x.

- Ops:
- A. 10
 - B. 2
 - C. 8
 - D. 5

Q 16. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

min sec

Q 21. How many 6 digit numbers being formed using 5, 7, 9, 0, 1, 8 when repetition of digits is allowed?

- Ops: A. 19440
B. 600
C. 38880
D. 720

Q 22. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

- Ops: A. Rs. 74500
B. Rs. 75150
C. Rs. 77650
D. Rs. 75000

Q 23. Sally is travelling from Kanyakumari to Mumbai which was 480 km apart. He covered 66.67% of the distance at 72 km/hr and the remaining by reducing the speed by 30%. What is the total time of the journey?

- Ops: A. 7 hours
B. 7 hours 20 minutes
C. 7 hours 12 minutes
D. 7 hours 37 minutes

The total number of females who left from all the branches is approximately what percentage of the total number of males who joined in all the branches?

- Ops: A. 0.3
B. 0.22
C. 0.18
D. 0.25

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- Ops: A. 19440
B. 600
C. 38880
D. 720

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- Ops: A. Rs. 74500
B. Rs. 75150
C. Rs. 77650
D. Rs. 75000

12. Cally is travelling from Kanpur to Mumbai which was 490 km

Ops: A. 12

B. 18

C. 15

D. 9

Reset

Q 13. What is the total simple interest earned by the bank if they disburses the four equal sum of Rs. 21000 to four different persons Kevin, Karl, Kent and Kenny at 5%, 6%, 7% and 8% rate for the period of 1 years, 2 years, 3 years and 4 years respectively?

Ops: A. Rs. 15000

B. Rs. 16000

C. Rs. 14700

D. Rs. 14000

Reset

Q 14. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What is the total donation made by the school in that month?

Ops: A. Rs. 74500

What were the approximate sales (by value) of the product in 2016?

- Ops:
- A. 176.45 million dollars
 - B. 119.6 million dollars
 - C. 152.13 million dollars
 - D. 167.8 million dollars

Q 26. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

- Ops:
- A. Rs. 7150
 - B. Rs. 74500
 - C. Rs. 75150
 - D. Rs. 75000

Q 27. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the

There are 42 pupils in a class. $\frac{3}{4}$ of the boys and $\frac{2}{3}$ of the girls travel to school by bus. The total number of boys and girls who travel to school by bus is 30. How many boys are there in the class? How many girls travel to school by bus?

Directions: Select the correct alternative from the given choices.

In a class, $\frac{2}{5}$ th of the students are girls and $\frac{3}{4}$ th of them travel to school by bus. 12 girls do not travel to school by bus. Find the strength of the class.

- 150
- 100
- 80
- 140
- 120

... from the given choices.

In a class, $\frac{2}{5}$ th of the students are girls and $\frac{3}{4}$ th of them travel to school by bus. 12 girls do not travel to school by bus. Find the strength of the class.

- 150
- 100
- 80
- 140
- 120

Ops: A. 12

B. 18

C. 15

D. 9

Reset

Q 13. What is the total simple interest earned by the bank if they disburses the four equal sum of Rs. 21000 to four different persons Kevin, Karl, Kent and Kenny at 5%, 6%, 7% and 8% rate for the period of 1 years, 2 years, 3 years and 4 years respectively

Ops: A. Rs. 15000

B. Rs. 16000

C. Rs. 14700

D. Rs. 14000

Reset

Q 14. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donate rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What is the total donation made by the school in that month?

Ops: A. Rs. 74500

What were the approximate sales (by value) of the product in 2016?

- Ops:
- A. 176.45 million dollars
 - B. 119.6 million dollars
 - C. 152.13 million dollars
 - D. 167.8 million dollars

Q 26. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

- Ops:
- A. Rs. 7150
 - B. Rs. 74500
 - C. Rs. 75150
 - D. Rs. 75000

Q 27. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the

There are four outlet pipes of the same capacity fixed one above the other to a water tank. The first pipe is at the bottom level and the fourth pipe is at three-fourths of the height of the tank. The third pipe is equidistant from the second pipe and the fourth pipe, the second pipe is equidistant from the first and the third. The capacity of each pipe is such that it can empty a full tank in four hours, whereas one inlet pipe can fill the empty tank in one hour. The pipe is opened to fill the empty tank and after one hour it is closed, then all the outlet pipes are opened. When the tank is full, all the four pipes are opened together and shut after one hour. If the inlet pipe is opened now, the time in which the tank will be full is ?

The solution says : In 15 minutes, 25 liters from the tank are emptied. In the next 20 minutes, 25 liters are emptied. In the next 30 minutes, 25 liters are emptied. Therefore, For last 25 minutes, 2 pipes are open. In that time $30 \times 25 = 750$ liters are emptied. In an hour, $50 + 750 = 800$ liters are emptied. The inlet pipe fills the entire tank in 1 hour. Therefore, it fills 800 litres in $100 \times \frac{800}{1000} = 80$ minutes. I couldn't understand why, in the last 25 minutes, $30 \times 25 = 750$ liters are emptied and then why it adds it to 50 litres (though I can understand that the last two pipes will empty 50 litres in 60 minutes).

- A 500-litre water storage tank is situated at the top of a building at a height of 300 feet. The tank, which is completely full, has two outlet pipes and one inlet pipe. Veeru climbs up to the tank and opens an outlet which can empty a full tank in 10 minutes. At the same time Jay opens an inlet pipe which can fill an empty tank in 12 minutes. .In how much time will the tank be empty?
- .When the tank becomes half empty, Veeru opens the other outlet pipe which can empty a full tank in 15 minutes. In how much time (from the start) will the tank be empty?
- .There are 3 pipes P, Q and R, which could fill a certain container in 38, 44 and 28 minutes respectively. The container is initially empty. Pipe P is opened at 9:41 a.m. 8 minutes later, pipe Q is opened. How many minutes after this should pipe R be opened so that the con- tainer will get filled at exactly 10 a.m.?
- .A cistern has 3 pipes P, Q and R. P and Q can fill it in 6 and 5 hours respectively and R can empty it in 2 hours. If these pipes are opened in order (i.e. P, Q and R) at 6 a.m., 7 a.m. and 8 a.m. respectively, then when will the cistern be empty?

DIRECTIONS for question 10: Select the correct alternative from the given choices.

A large tank of height 10 m is fitted with an inlet pipe which can fill the tank in 60 minutes. The tank has three emptying outlets pipes fitted at the heights of 5 m, 8 m and 9.5 m respectively from the bottom. All the pipes are opened simultaneously with the tank being empty initially. In how much time (in minutes) will 95% of the tank be filled, if the lowest outlet pipe alone can empty half the tank in one and a half hour; the outlet pipe in the middle alone can empty 20% of the tank in 1 hour 12 minutes and the outlet pipe at the top alone can empty 5% of the tank in 18 minutes?

- 48
- 60
- 96
- 75

Quantitative Ability

Marks for correct answer: 1 | Negative marks: 1

A tank of height 4 m has two inlet pipes and two outlet pipes attached to it. One outlet pipe is attached to the tank at the bottom while the other outlet pipe is attached to the tank at height 2 m. One inlet pipe is attached to the tank at height 1 m and the other inlet pipe is attached to the tank at height 3 m. Each inlet pipe can completely fill an initially empty tank in 5 hours while each outlet pipe, if attached at the bottom can completely empty an initially full tank in 4 hours. If the tank is initially full, in how much time will the tank be emptied for the first time, given that both the inlet pipes throughout take water in the tank?

- 37 hours 20 minutes
- 29 hours
- 20 hours
- The tank will never be emptied

Marked for Review & Next

Clear Response

Previous

Save and Next



Search

ENG
IN

Refer to the data below and answer the questions that follow.

A 500-litre water storage tank is situated at the top of a building at a height of 300 feet. The tank, which is completely full, has two outlet pipes and one inlet pipe. Veeru climbs up to the tank and opens an outlet which can empty the full tank in 10 minutes. At the same time Jay opens the inlet pipe which can fill the empty tank in 12 minutes.

13/25

When the tank becomes half empty, Veeru opens the other outlet pipe which can empty a full tank in 15 minutes. In how much time (from the start) will the tank be empty?

A 66 minutes ✕

B 75 minutes ✕

C 36 minutes ✕

D 50 minutes ✕

View Answer



11

12

13

14

15

16

17

18

19

20



Search



Check

A tank of height 'h' has two inlet pipes, one at height 'h' and the other at the bottom, and three outlet pipes connected each at height $\frac{2h}{3}$, $\frac{h}{3}$ and 0. Each inlet pipe can fill the tank in 4 hours, and each outlet pipe can empty the tank in 12 hours. If all the inlet and outlet pipes are opened when the tank is empty, how long will it take for the tank to be full?

- 2hours 18minutes
- 3hours 18minutes
- 3hours 8minutes
- 2hours 8minutes

Question No. 4

A tank of height 'h' has two inlet pipes, one at height 'h' and the other at the bottom, and three outlet pipes connected each at height $\frac{2h}{3}$, $\frac{h}{3}$ and 0. Each inlet pipe can fill the tank in 4 hours, and each outlet pipe can empty the tank in 12 hours. If all the inlet and outlet pipes are opened when the tank is empty, how long will it take for the tank to be full?

10

0

Water is sent to a cylindrical tank with a height of 3 m and a diameter of 1 m through a pipe with a diameter of 0.05 m at a speed of 10.2 m / min. The volumetric flow rate in the pipe at the tank outlet is directly proportional to the liquid level in the tank and the valve constant can be taken as 0.008 m² / s; If the tank is empty initially and the valve at the outlet of the tank is opened after 40 minutes and the water is started to be taken, how many meters will the water height in the tank. What will be the water level 15 minutes after the bottom valve is opened?

Note: The temperature and density of the water are constant,

What were the approximate sales (by value) of the product in 2016?

- Ops:
- A. 176.45 million dollars
 - B. 119.6 million dollars
 - C. 152.13 million dollars
 - D. 167.8 million dollars

Q 26. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donated as many rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What was the total donation made by the school in that month?

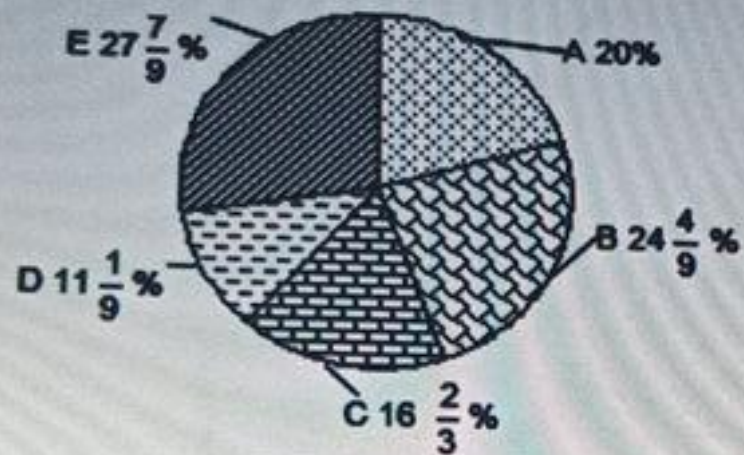
- Ops:
- A. Rs. 7450
 - B. Rs. 74500
 - C. Rs. 75150
 - D. Rs. 75000

Q 27. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the

Q 11. Read the information and answer the following question:

The pie chart shows the distribution of students studying in 12th class in different sections of school. The table shows the ratio of boys to girls in different sections.

Section-wise distribution of students



Ratio of boys to girls in different sections

	Boys : Girls
A	5 : 4
B	1 : 1
C	2 : 3
D	1 : 4
E	2 : 3

The total number of students in 5 sections are 270. What is the absolute difference in the number of boys and girls in Section C?

- Ops: A. 15
B. 12
C. 20
D. 30

Reset

Q 19. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

- Ops:**
- A. 95 minutes
 - B. 72 minutes
 - C. 87.5 minutes
 - D. 60 minutes

Q 20. Kenneth and Kent together can complete his work in 12 days, Kent and Kevin together in 15 days and Kevin and Kenneth in 20 days. They all work together for 6 days and then Kenneth left. In how many more days can Kent and Kevin finish the remaining work?

- Ops:**
- A. 4 days
 - B. 6 days
 - C. 3 days
 - D. 4.5 days



Q 28. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

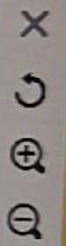
- Ops:
- A. 95 minutes
 - B. 72 minutes
 - C. 60 minutes
 - D. 87.5 minutes

Q 29. Due to reduction of $6\frac{2}{3}\%$ in the price of an apple, a person was able to buy two more apples for Rs. 210. What is the original price of one apple?

- Ops:
- A. Rs. 7.50
 - B. Rs. 7
 - C. Rs. 8.50
 - D. Rs. 8

Q 30. How many 5 digit numbers being formed using 2, 3, 6, 8, 0 when repetition of digits is not allowed?

- Ops:
- A. 120
 - B. 96
 - C. 48
 - D. 2500



Q 12. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

- Ops:**
- A. 95 minutes
 - B. 87.5 minutes
 - C. 60 minutes
 - D. 72 minutes

Q 13. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% on other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops:**
- A. USD 20400
 - B. USD 1700
 - C. USD 18500
 - D. USD 20000

Q 14. A sum was lent at simple interest at a certain annual rate for 2 years. Had it been lent at 3% per annum higher rate, it would have fetched Rs. 72 more. What is the compound interest on the same sum at 20% per annum for two years?

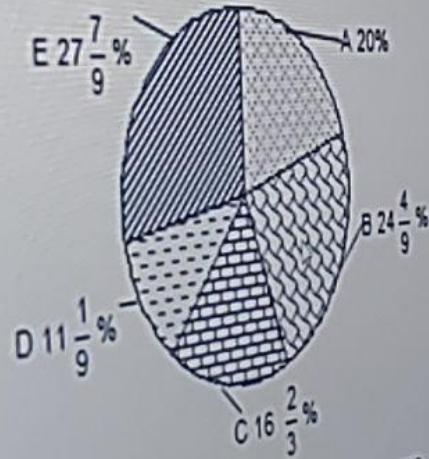
- Ops:**
- A. Rs. 648
 - B. Rs. 954
 - C. Rs. 528
 - D. Rs. 674

Q 13. Read the information and answer the following question.

The pie chart shows the distribution of students studying in 12th class in different sections of school. The ratio between the no. of boys and girls in different sections.

Section-wise distribution of students

Ratio of boys to girls in different sections



	Boys	Girls
A	5	4
B	1	1
C	2	3
D	1	4
E	2	3

The total number of students in 5 sections = 270

In how many sections the number of girls are more than the number of boys?

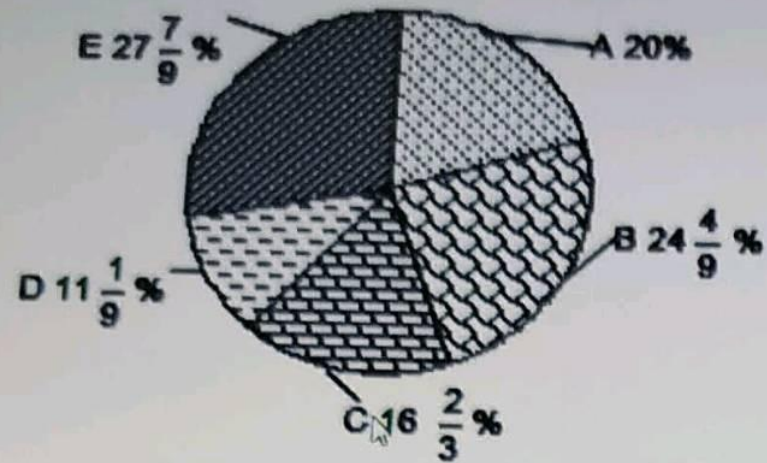
- Ops:
- A. 2
 - B. 4
 - C. 3
 - D. 1

Amount of Rs. 5000 to her friend Sarah at compound interest. After three years, the principal amount is Rs. 6000. In how many years did she lend the money?

Q 07. Read the information and answer the following question:

The pie chart shows the distribution of students studying in 12th class in different sections of school. The table shows the ratio of boys to girls in different sections.

Section-wise distribution of students



Ratio of boys to girls in different sections

	Boys : Girls
A	5 : 4
B	1 : 1
C	2 : 3
D	1 : 4
E	2 : 3

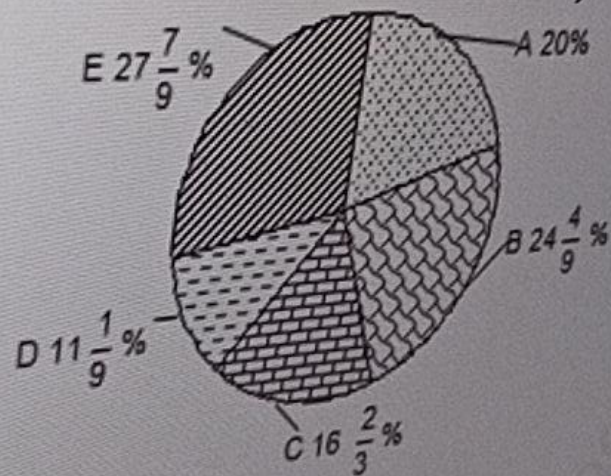
The total number of students in 5 sections are 270. What is the absolute difference in the number of boys and girls in Section C?

- Ops:
- A. 30
 - B. 20
 - C. 15
 - D. 12

Q 44. Read the information and answer the following questions:

The pie chart shows the distribution of students studying in 12th class in different sections of school. The table shows the ratio of boys to girls in different sections.

Section-wise distribution of students



Ratio of boys to girls in different sections

	Boys : Girls
A	5 : 4
B	1 : 1
C	2 : 3
D	1 : 4
E	2 : 3

The total number of students in 5 sections = 270

How many boys are studying in Section A?

- Ops:
- A. 32
 - B. 28
 - C. 30
 - D. 35

and answer the following question:



Sections

01. Quant Assessment

00 / 30 attempted

Q 28. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

- Ops:
- A. 95 minutes
 - B. 72 minutes
 - C. 60 minutes
 - D. 87.5 minutes

Q 29. Due to reduction of $6\frac{2}{3}\%$ in the price of an apple, a person was able to buy two more apples for Rs. 210. What is the original price of one apple?

- Ops:
- A. Rs. 7.50
 - B. Rs. 7
 - C. Rs. 8.50
 - D. Rs. 8

Q 30. How many 5 digit numbers being formed using 2, 3, 6, 8, 0 when repetition of digits is not allowed?

- Ops:
- A. 120
 - B. 96
 - C. 48
 - D. 2500

Q 06. Pipe A can fill the overhead tank of a building in 2 hours, while pipes B and C can empty the tank in 6 and 9 hours, respectively. All the three pipes are opened simultaneously till the tank is half filled. After that, Pipe B is closed. then how long will it take to fill the tank now?

- Ops:
- A. 4 hours
 - B. 6 hours and 45 minutes
 - C. 5 hours and 8 minutes
 - D. 6 hours and 30 minutes

Q 07. A sum was lent at simple interest at a certain annual rate for 2 years. Had it been lent at 3% per annum higher rate, it would have fetched Rs. 72 more. What is the compound interest on the same sum at 20% per annum for two years?

- Ops:
- A. Rs. 954
 - B. Rs. 528
 - C. Rs. 674
 - D. Rs. 648

01. Quant Assessment

Q 01. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% on other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops:**
- A. USD 18500
 - B. USD 1700
 - C. USD 20400
 - D. USD 20000

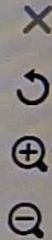
Q 02. Arabica Coffee house in London sold their coffee making machines to local café house for Rs. 34000 at a loss of 15%. At what price should they sell the coffee machine so as to gain 15%?

- Ops:**
- A. Rs. 38000
 - B. Rs. 40000
 - C. Rs. 46000
 - D. Rs. 44000

Q 03. The radius of a circle is 15 cm and PQ is a chord which is at a distance of 12 cm from the centre. The length of chord PQ is:

- Ops:**
- A. 18 cm
 - B. 25 cm
 - C. 9 cm
 - D. 27 cm

Q 04. If the letters of the word are DICE are rearranged to form a word. Then what is the word? With at



C. 130, 25, 120

D. 130, 15, 130

Reset

Q 10. What is the number of word formed using the letter of word 'ORTHODOXY' if all the O are placed together?

Ops: A. 1440

B. 2880

C. 5040

D. 720

Q 11. A diesel tank has a leak which would empty it in 8 hours. A pipe is connected to diesel tank which admits 12 litres of diesel per minute into the tank and now, the leak will empty the tank in 24 hours. If the price of diesel per litre is Rs. 8, how much worth diesel is filled in the tank?

Ops: A. Rs. 62160

B. Rs. 66800

C. Rs. 69120

D. Rs. 68650

Q 12. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

Reset

Q 03. "m" number of mangoes are distributed among some boys and girls. If each boy gets 9, then each girl gets 6. If each boy gets 7, the mangoes become surplus by 18. If the number of girls is 9, then find the value of m.

- Ops: A. 135
B. 140
C. 125
D. 136

Reset

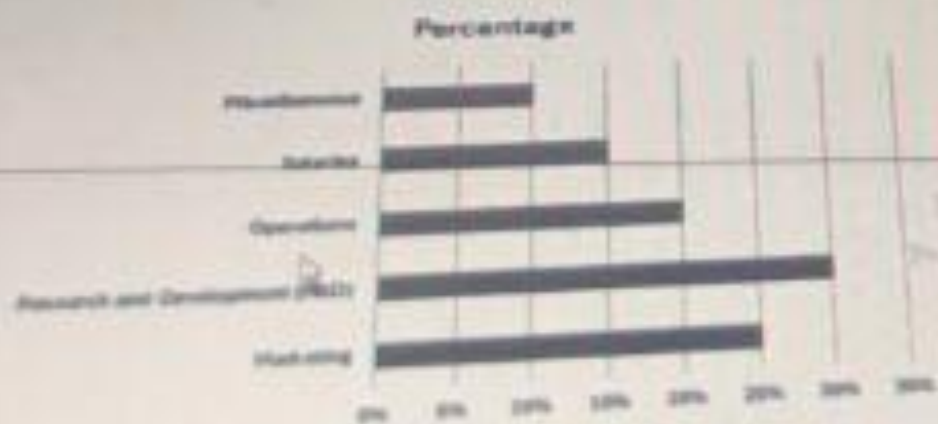
Q 04. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study material and other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops: A. USD 1700
B. USD 20400
C. USD 18500
D. USD 20000

Q 14. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 10% on college study materials and 20% on other expenditures. If he saves USD 289 a month. What is his annual salary?

- Q14: A. USD 20000
 B. USD 1700
 C. USD 18500
 D. USD 20400

Q 15. The following chart illustrates the expenditure distribution of a company for a total year with the following categories and their percentages:
 Assume the total expenditure for the year is \$500,000. If the expenditure on Miscellaneous activities was increased by 50%, calculate the revised total expenditure.



4575,000

5. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% other expenditure. If he saves USD 289 a month. What is his annual salary?

- A. USD 20000
- B. USD 20400
- C. USD 1700
- D. USD 18500

Read the information and answer the following question:

24. A man starts from his home for his office 20 minutes later than the usual time and travels at a speed 25% more than his usual speed, thereby he reaches his office 15 minutes earlier. What is the usual time (in minutes) taken by him to reach the office?

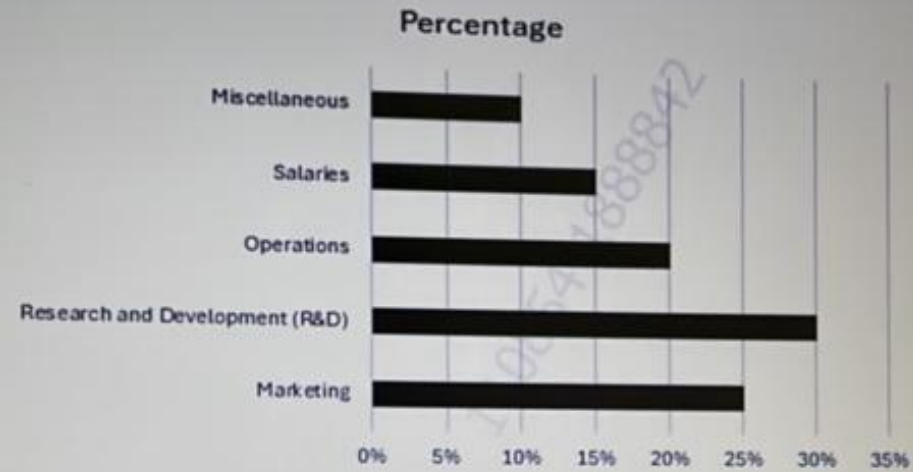
(a) 25

(b) 50

(c) 175

(d) 145

Q 13. The following chart illustrates the expenditure distribution of a company for a fiscal year with the following categories and their percentages:
Assume the total expenditure for the year is \$500,000. If the expenditure on Miscellaneous activities was increased by 50%, calculate the revised total expenditure.



- Ops:
- A. \$525,000
 - B. \$625,000
 - C. \$725,000
 - D. \$545,000

Q 14. If \$400 is invested at a simple interest rate of 4% per annum for 4 years, what will be the total interest earned?

Q 01. If \$400 is invested at a simple interest rate of 4% per annum for 4 years, what will be the total interest earned?

- Ops:
- A. 22
 - B. 64
 - C. 44
 - D. 58

min sec
Q 19. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $\frac{1}{9}$ th of his present age, find his son's present age?

- Ops:
- A. 5 years
 - B. 8 years
 - C. 6 years
 - D. 4 years

Q 20. A total of 1815 students from 4 different states - P, Q, R and Shad participated in competition. Half of the number of participants from P, $\frac{3}{4}$ from Q, $\frac{7}{9}$ from R and $\frac{7}{8}$ from S are equal. What is the total number of students participating from states Q and R together?

- Ops:
- A. 990
 - B. 825
 - C. 780
 - D. 728

Q 21. A company had total revenue of \$200,000 last year. This year, the revenue increased by 15% but the cost of goods sold (COGS), which was initially 40% of last year's revenue, increased by 25% this year. Calculate the net profit percentage for this year.

- Ops:
- A. 56.52%
 - B. 125%
 - C. 15.66%
 - D. 75.22%



Q 20. Umair travels three different distances by running, cycling and walking of distances 18 km, 27 km and 33 km at the speed of $\frac{1}{3}$ km/hr, $\frac{1}{4}$ km/hr and 1 km/hr respectively. What is the ratio of the time taken for the distances given?

- Ops:
- A. 9 : 18 : 5
 - B. None of the mentioned options
 - C. 3 : 4 : 1
 - D. 18 : 36 : 11

Q 21. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $\frac{1}{9}$ th of his present age, find his son's present age?

- Ops:
- A. 4 years
 - B. 6 years
 - C. 5 years
 - D. 8 years

Q 07. A cryptocurrency's price was \$150 at the start of the year. By the end of the year, the price increased by 20% and then decreased by 10%. What is the final price of the cryptocurrency at the end of the year?

- Ops:
- A. \$162
 - B. \$187
 - C. \$165
 - D. \$134

Q 08. Solve the following equations for b and c:

$$a+3c-4b = -21$$

$$2a+c+3b = 10$$

$$b+c = 5$$

- Ops:
- A. $52/17, 15/17$
 - B. $52/17, 12/17$
 - C. $77/16, 3/16$
 - D. $77/16, 7/16$

Q 09. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $1/9$ th of his present age, find his son's present age?

- Ops:
- A. 8 years

Q 11. 18 men can complete a piece of work in 20 days and 20 women can complete a piece of work in 32 days. 18 men started the work and after 15 days, they were replaced by x women. If x women can complete the work in 16 days, what is the value of x ?

- Ops: A. 15
B. 8
C. 12
D. 10

Q 12. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $\frac{1}{9}$ th of his present age, find his son's present age?

- Ops: A. 5 years
B. 4 years
C. 8 years
D. 6 years

Q 13. A committee of 7 is to be formed for the selection of Football team in Highland school, London, consisting of 5 women and 8 men. In how many ways can it be formed if it consist of more women than men?

- Ops: A. 280
B. 344
C. 308
D. 296



17. A manufacturer made jeans and sold to the company for Rs 600. The company sell this jeans to dealer for Rs. 750. The dealer sells this jeans to shopkeeper for Rs. 800 and shopkeeper marked it up by 30%. After giving a discount of 10% to the customer, what is the profit percentage for the shopkeeper?

- Ops:
- A. 15%
 - B. 17%
 - C. 18%
 - D. 20%

Q 18. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $\frac{1}{9}$ th of his present age, find his son's present age?

- Ops:
- A. 4 years
 - B. 6 years
 - C. 5 years
 - D. 8 years

Q 19. "m" number of mangoes are distributed among some boys and girls. If each boy gets 9, then each girl gets 6. If each boy gets 10 and each girl gets 7, the mangoes become surplus by 18. If the number of girls is 9, then find the value of m.

- Ops:
- A. 125
 - B. 136
 - C. 135
 - D. 140

Q 20. The difference between Simple Interest received from two banks on Rs. 1250 for four years is Rs. 125. What is the difference between their annual rates?

Q 10. Oliver and Noah started simultaneously from cities P and Q towards Q and P respectively with their speed in ratio of 5 : 6. The distance between P and Q is 143 km. What is the distance from Q to the point at which Oliver and Noah meet?

- Ops:
- A. 90 km
 - B. 85 km
 - C. 78 km
 - D. 72 km

Q 18. A can do a piece of work in 12 days. B can do the same work in 36 days. If both A and B work together, how many days will they take to finish the work, given that A works at $\frac{2}{3}$ rd of his efficiency and B at half of his efficiency?

- Ops:**
- A. $13\frac{1}{2}$ days
 - B. 12 days
 - C. $14\frac{2}{5}$ days
 - D. $14\frac{1}{5}$ days

01. Quant Assessment

Q 01. Jacob invests \$120,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$139,112, then find x .

- Ops:
- A. 16%
 - B. 12%
 - C. 8%
 - D. 20%

342

- B. 17000
 - C. 18000
 - D. 12000
- Reset

Q 10. Jacob invests \$120,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$139,112, then find x .

- Opt: A. 20%
- B. 8%
- C. 12%
- D. 16%

Q 11. There are two different coloured bikes in a showroom - black and yellow. A man buys two bikes one at a time. The probabilities that both bikes are of different colours are $\frac{16}{33}$. If number of yellow colour bikes is eight and total number of bikes is less than twenty, then find the number of black colour bikes.

- Opt: A. 6
- B. 10
- C. 4
- D. 12

Q 12. Jane invested \$48,000 in a savings bank account that earns 10% interest compounded annually. What's the amount after n years?

- Opt: A. \$56029
- B. \$28490
- C. \$48726

Q 03. Jacob invests \$430,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. Jacob in March 2021 is \$474,754, then find x .

- Ops:**
- A. 4%
 - B. 12%
 - C. 8%
 - D. 20%

start running simultaneously from different points on

Q 11. Jacob invests \$340,000 in a savings bank account at the rate of $x\%$ compounded quarterly. Jacob in March 2021 is \$357,343, then find x .

- Ops:**
- A. 4%
 - B. 20%
 - C. 12%
 - D. 8%

... and 8 hours 30 mins hours to travel 119 km in downstre

Q 18. A straight wall touches a circle. There is a flood light placed on the ground at a distance of 40 meters from the wall. The flood light illuminates the wall for the first time 8 minutes after she starts. Find the time taken for the flood light to illuminate the wall.

- Ops: A. 40 minutes
B. 36 minutes
C. 30 minutes
D. 45 minutes

112

Q 19. Jacob invests \$430,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. The amount received by Jacob in March 2021 is \$474,754, then find x .

- Ops: A. 8%

- C. 0.24
D. 0.27

Reset

Jacob invests \$245,000 in a savings bank account at the rate of $x\%$ compounded quarterly. If the balance in the account in March 2021 is \$298,080, then find x .

- A. 8%
B. 20%
C. 16%
D. 12%

- E. 17000
 - C. 18000
 - D. 12000
- Reset

Q 10. Jacob invests \$120,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$139,112, then find x .

- Opt: A. 20%
- B. 8%
- C. 12%
- D. 16%

Q 11. There are two different coloured bikes in a showroom - black and yellow. A man buys two bikes one at a time. The probabilities that both bikes are of different colours are $\frac{16}{33}$. If number of yellow colour bikes is eight and total number of bikes is less than twenty, then find the number of black colour bikes.

- Opt: A. 6
- B. 10
- C. 4
- D. 12

Q 12. Jane invested \$48,000 in a savings bank account that earns 10% interest compounded annually. What's the amount after n years?

- Opt: A. \$56029
- B. \$26490
- C. \$48000

The difference between Simple Interest received from two banks on Rs. 1250 for four years is Rs. 125. What is the difference between their annual rates?

Ops: A. 3.5%

B. 3%

C. 2.5%

D. 4%

Q 07. The difference between Simple Interest received from two banks on Rs. 1250 for four years is Rs. 125. What is the difference between their annual rates?

Ops: A. 3.5%

B. 4%

C. 3%

D. 2.5%

D. 0.385

Quant Assessment

00 attempted

Q 17. Special seats reserved for VIP, Regular, and Balcony sections in a concert are in the ratio 3:5:7. There is a proposal to increase these seats by 25%, 30%, and 50% respectively. What will be the new ratio of seats after the increase?

- Ops: A. 12:7:9
B. 7:13:17
C. 21:17:13
D. 15:26:42

Q 18. The difference between Simple Interest received from two banks on Rs. 1250 for four years is Rs. 125. What is the difference between their annual rates?

- Ops: A. 2.5%
B. 4%
C. 3.5%
D. 3%

Q 19. If \$400 is invested at a simple interest rate of 4% per annum for 4 years, what will be the total interest earned?

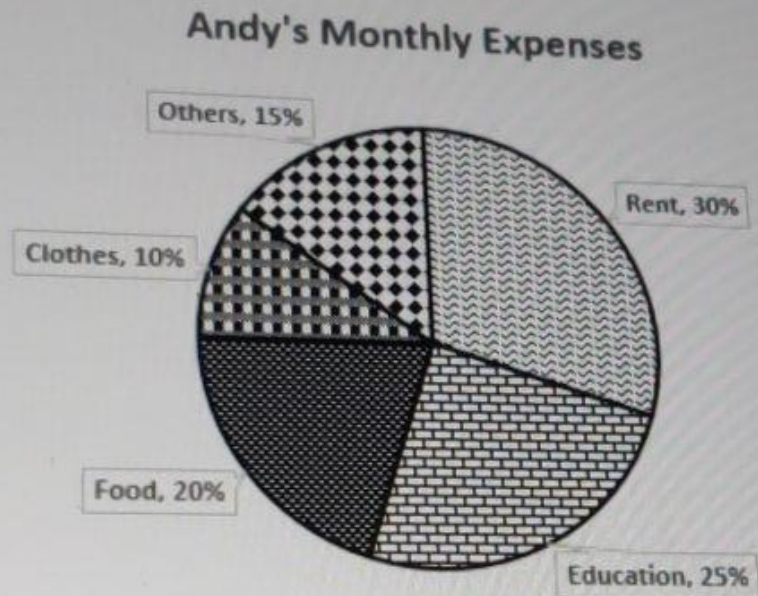
- Ops: A. 44
B. 64
C. 58
D. 22

Q 20. The given pie chart represents the break up of Andy's monthly expenses.

mit

Q 13. The given pie chart represents the break up of Andy's monthly expenses.

Study the chart carefully and the answer the question that follow.



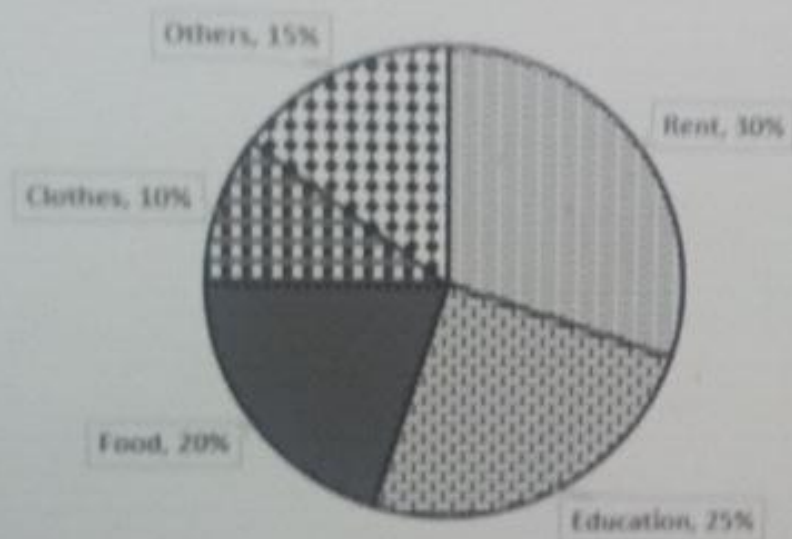
If Andy spent \$550 on food, then find his total monthly expenses.

- Ops:
- A. \$2250
 - B. \$2000
 - C. \$2750
 - D. \$3750

6. The given pie chart represents the break up of Andy's monthly expenses.

Study the chart carefully and the answer the questions that follow.

Andy's Monthly Expenses



Find the angle made when the expenditure on rent and others are put together.

- Qs: A. 102°
B. 162°
C. 108°
D. 54°

09. Isabella gave birth to twins, when she was 23 years old. After m years, the sum of their children was 53 years. What is the value of m ?

- s:
- A. 8
 - B. 9
 - C. 10
 - D. 7

. The given pie chart represents the break up of Andy's monthly expenses.

Study the chart carefully and the answer the questions that follow.

Andy's Monthly Expenses

Q 08. Adam sold his bike at a loss of \$5500. If he sold it at \$7500, then find the

- Ops:
- A. \$13,000
 - B. \$17,500
 - C. \$16,500
 - D. \$2000

Q 09. The given pie chart represents the break up of Andy's monthly expenses.

Q 17. A manufacturer made jeans and sold to the company for Rs 600. The company sell this jeans to dealer for Rs. 750. The dealer sells this jeans to shopkeeper for Rs. 800 and shopkeeper marked it up by 30%. After giving a discount of 10% to the customer, what is the profit percentage for the shopkeeper?

- Ops:
- A. 15%
 - B. 17%
 - C. 18%
 - D. 20%

Q 18. Smith got married 18 years ago. Now, his age is 150% of his age when he got married. If his son's present age is $\frac{1}{9}$ th of his present age, find his son's present age?

- Ops:
- A. 4 years
 - B. 6 years
 - C. 5 years
 - D. 8 years

Q 19. "m" number of mangoes are distributed among some boys and girls. If each boy gets 9, then each girl gets 6. If each boy gets 10 and each girl gets 7, the mangoes become surplus by 18. If the number of girls is 9, then find the value of m.

- Ops:
- A. 125
 - B. 136
 - C. 135
 - D. 140

Q 20. The difference between Simple Interest received from two banks on Rs. 1250 for four years is Rs. 125. What is the difference between their annual rates?

Q 01. 750

Reset

Q 02. If \$400 is invested at a simple interest rate of 4% per annum for 4 years, what will be the total interest earned?

Ops: A. 44

B. 22

C. 58

D. 64

Reset

C. 130, 25, 120

D. 130, 15, 130

Reset

Q 10. What is the number of word formed using the letter of word 'ORTHODOXY' if all the O are placed together?

Ops: A. 1440

B. 2880

C. 5040

D. 720

Q 11. A diesel tank has a leak which would empty it in 8 hours. A pipe is connected to diesel tank which admits 12 litres of diesel per minute into the tank and now, the leak will empty the tank in 24 hours. If the price of diesel per litre is Rs. 8, how much worth diesel is filled in the tank?

Ops: A. Rs. 62160

B. Rs. 66800

C. Rs. 69120

D. Rs. 68650

Q 12. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

01. Quant Assessment

30 questions, 1 mark each

Q 01. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% on other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops:**
- A. USD 18500
 - B. USD 1700
 - C. USD 20400
 - D. USD 20000

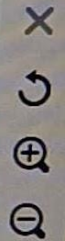
Q 02. Arabica Coffee house in London sold their coffee making machines to local café house for Rs. 34000 at a loss of 15%. At what price should they sell the coffee machine so as to gain 15%?

- Ops:**
- A. Rs. 38000
 - B. Rs. 40000
 - C. Rs. 46000
 - D. Rs. 44000

Q 03. The radius of a circle is 15 cm and PQ is a chord which is at a distance of 12 cm from the centre. The length of chord PQ is:

- Ops:**
- A. 18 cm
 - B. 25 cm
 - C. 9 cm
 - D. 27 cm

Q 04. If the letters of the word are DICE are rearranged to form a word. Then what is the probability that no two vowels are adjacent?



Q 06. Pipe A can fill the overhead tank of a building in 2 hours, while pipes B and C can empty the tank in 6 and 9 hours, respectively. All the three pipes are opened simultaneously till the tank is half filled. After that, Pipe B is closed. then how long will it take to fill the tank now?

- Ops:
- A. 4 hours
 - B. 6 hours and 45 minutes
 - C. 5 hours and 8 minutes
 - D. 6 hours and 30 minutes

Q 07. A sum was lent at simple interest at a certain annual rate for 2 years. Had it been lent at 3% per annum higher rate, it would have fetched Rs. 72 more. What is the compound interest on the same sum at 20% per annum for two years?

- Ops:
- A. Rs. 954
 - B. Rs. 528
 - C. Rs. 674
 - D. Rs. 648



Sections

01. Quant Assessment

00 / 30 attempted

Q 28. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

- Ops:
- A. 95 minutes
 - B. 72 minutes
 - C. 60 minutes
 - D. 87.5 minutes

Q 29. Due to reduction of $6\frac{2}{3}\%$ in the price of an apple, a person was able to buy two more apples for Rs. 210. What is the original price of one apple?

- Ops:
- A. Rs. 7.50
 - B. Rs. 7
 - C. Rs. 8.50
 - D. Rs. 8

Q 30. How many 5 digit numbers being formed using 2, 3, 6, 8, 0 when repetition of digits is not allowed?

- Ops:
- A. 120
 - B. 96
 - C. 48
 - D. 2500

Reset

Q 12. Patty starts from his office for his home 30 minutes later than the usual time and travels at a speed 40% more than his usual speed, thereby he reaches his home 25 minutes earlier. What is the usual time (in minutes) taken by him to reach his home?

- Ops:**
- A. 95 minutes
 - B. 87.5 minutes
 - C. 60 minutes
 - D. 72 minutes

Q 13. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% on other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops:**
- A. USD 20400
 - B. USD 1700
 - C. USD 18500
 - D. USD 20000

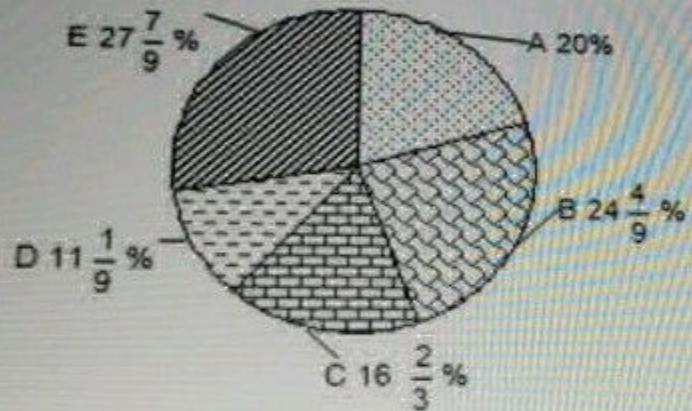
Q 14. A sum was lent at simple interest at a certain annual rate for 2 years. Had it been lent at 3% per annum higher rate, it would have fetched Rs. 72 more. What is the compound interest on the same sum at 20% per annum for two years?

- Ops:**
- A. Rs. 648
 - B. Rs. 954
 - C. Rs. 528
 - D. Rs. 674

Q 26. Read the information and answer the following questions:

The pie chart shows the distribution of students studying in 12th class in different sections of school. The table shows the ratio of boys to girls in different sections.

Section-wise distribution of students



Ratio of boys to girls in different sections

	Boys : Girls
A	5 : 4
B	1 : 1
C	2 : 3
D	1 : 4
E	2 : 3

The total number of students in 5 sections = 270

How many boys are studying in Section A?

- Ops:
- A. 28
 - B. 35
 - C. 32
 - D. 30

D. \$1,650

Reset

2. What is the last two digits of the expression $(96! + 42! - 27! - 16! + 9! - 4! - 2)$?

A. 96

B. 54

C. 94

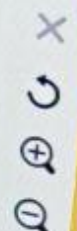
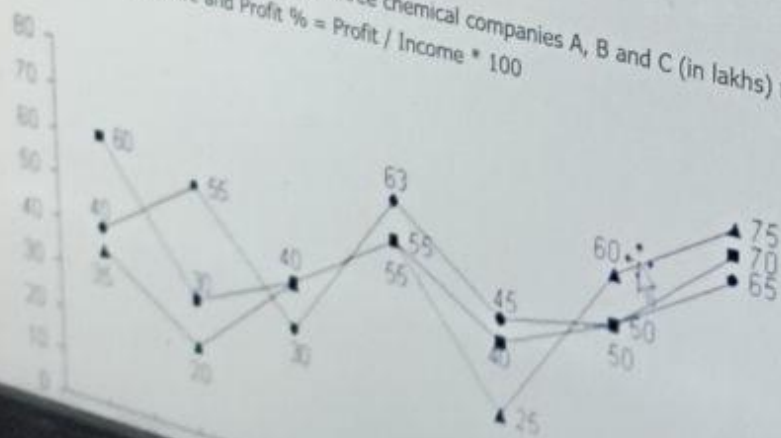
D. 72

3. Read the information and answer the following question:

The two pie charts are given showing the distribution of adults in a city

Q 05. Read the information and answer the following question:

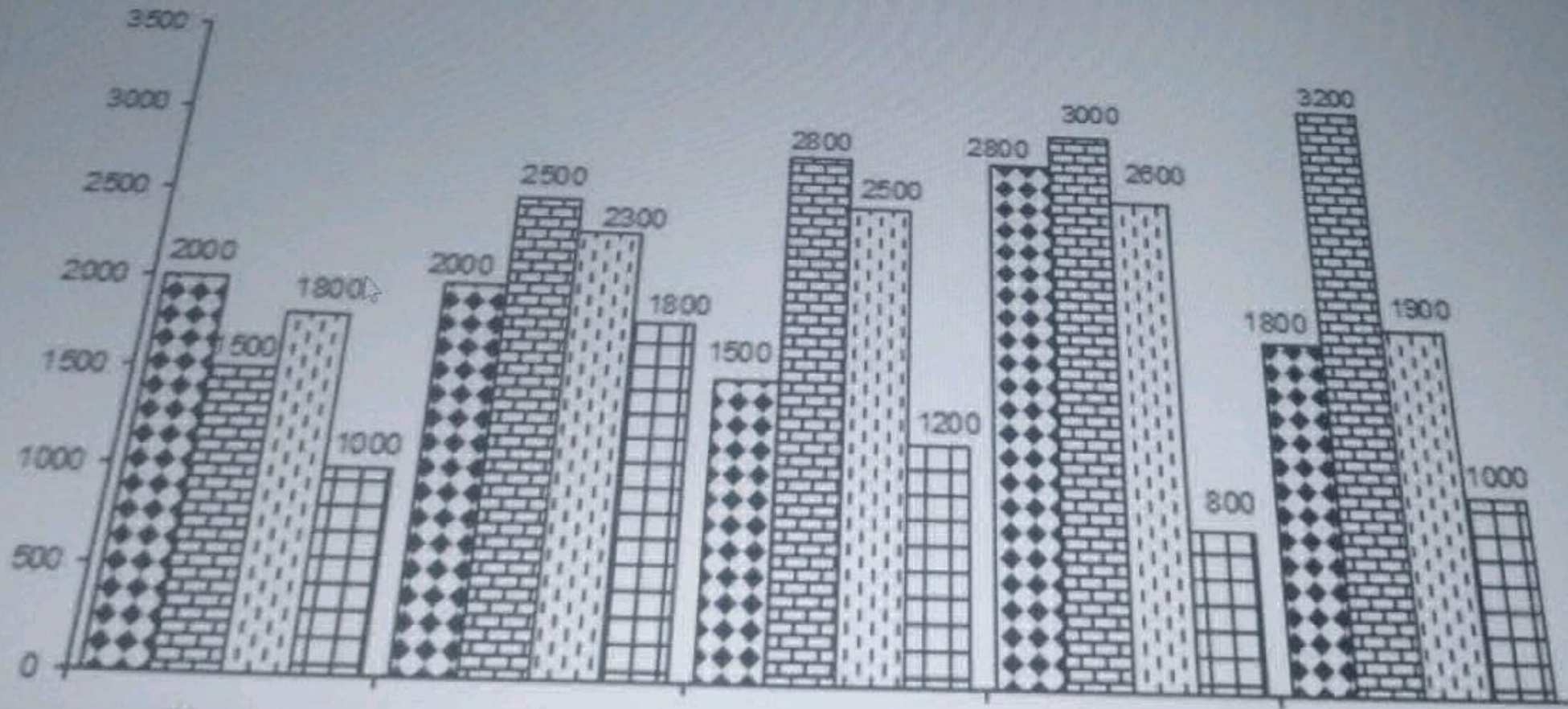
The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100



Q 85. Read the information and answer the following question:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

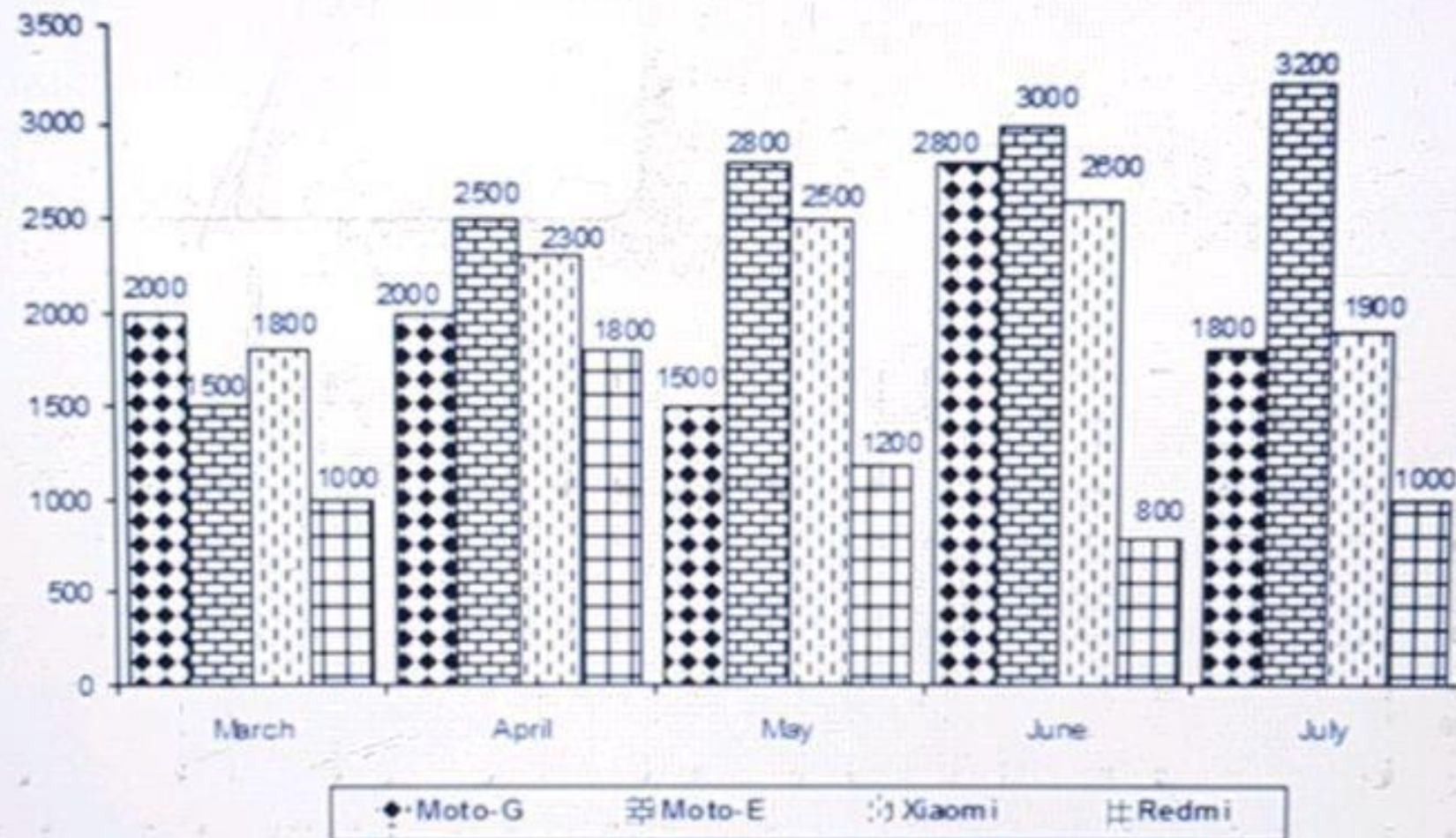
Number of mobile phones sold online



Q 03. Read the information and answer the following question:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

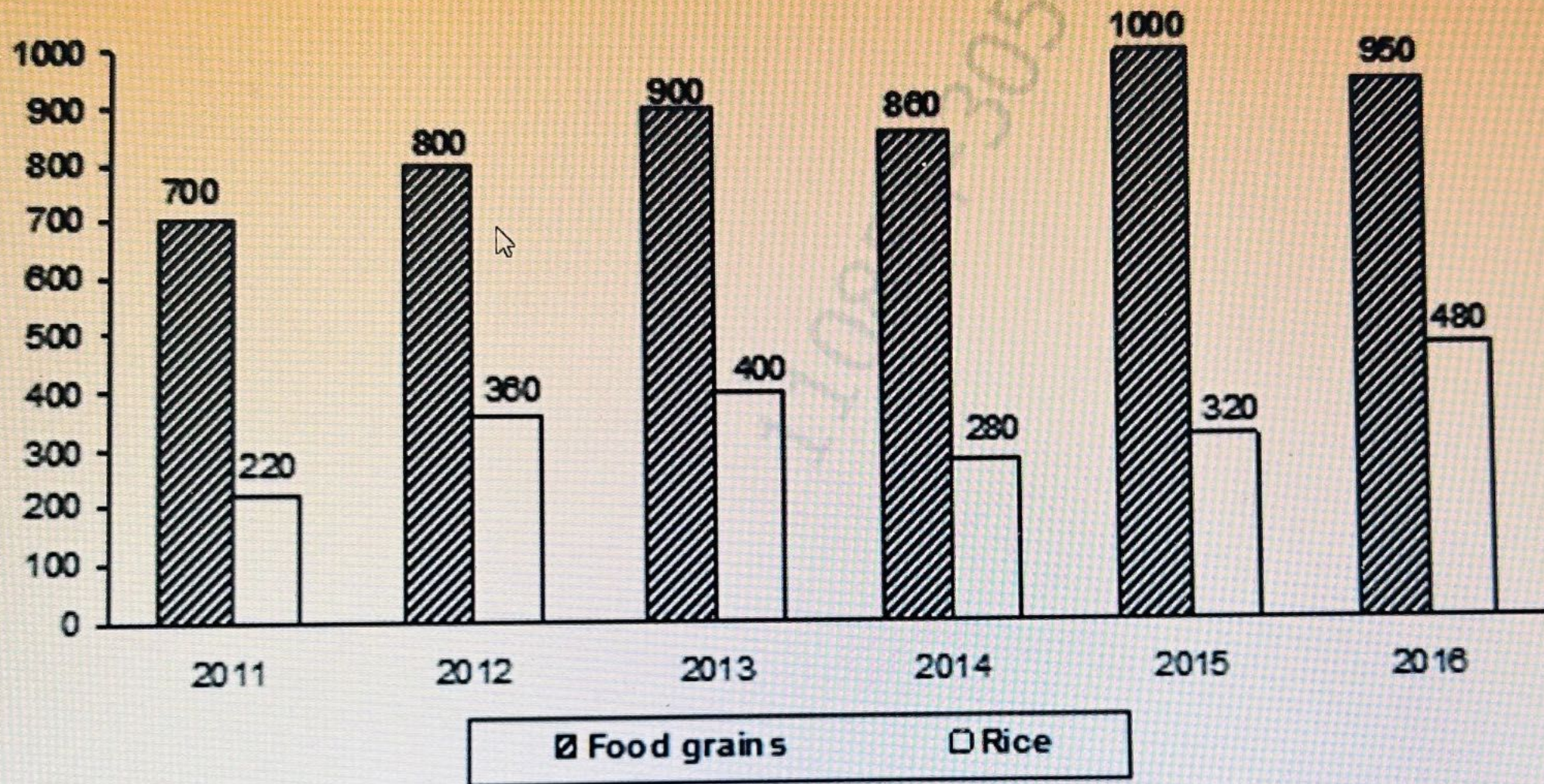
Number of mobile phones sold online



Which of the following can be concluded:

Read the information and answer the following question:

The following bar chart shows the total food grain and rice production in the USA from 2011 to 2016 (in million tonnes).



In the year 2014, rice produced is what percentage of the total food grain production in that year?

Q 30. Read the information and answer the following questions:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Scheme Year ↓	X	Y	Z
2008	16	18	19
2009	15	20	24
2010	18	24	30
2011	17	15	18
2012	17	20	10
2013	10	13	15
2014	12	14	16

Donald invested some amount in scheme Z in 2012 and invested the realized amount in Scheme X in 2013. At the end of 2013 he got 48400. What is the total amount invested in 2012?

- Ops:
- A. Rs. 36000
 - B. Rs. 45000
 - C. Rs. 40000
 - D. Rs. 35000

Q 13. Two cards are drawn at random from the deck of 52 cards. What is the probability that the sum of these two cards is 77

- Ops: A. 24/221
B. 8/221
C. 32/663
D. 16/663

Q 14. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Year ↓	Scheme →		
	X	Y	Z
2008	16	18	19
2009	15	20	24
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2014	12	14	16

Donald invested some amount in scheme Z in 2012 and invested the realized amount in Scheme X in 2013. At the end of 2013 he got Rs. 48400. What is the total amount invested in 2012?

- Ops: A. Rs. 36000
B. Rs. 40000
C. Rs. 35000
D. Rs. 45000

Q 15. The production of two wheelers in an Assembly Unit in Pune went up from 51 million units in 2014 to 216.75 million units in 2016. What is the percentage increase in the production of two wheelers in these 2 years?

- Ops: A. 325%
B. 300%
C. 225%
D. 125%

Q 16. If the cost price of an item in a store is decreased by 20% and then increased by 13%, calculate the selling price of the item?

- Ops: A. Rs. 104
B. Rs. 92
C. Rs. 90.40
D. Rs. 80

Q 17. Cameron told his son, "My age x years hence will be 3 times your age. My age 2x years ago was 9 times your age". If the difference of their present ages is 30 years, then how old is Cameron?

- Ops: A. 60 years
B. 45 years
C. 55 years
D. 50 years

Q 18. By selling 14 apples for a rupee, a man loses 15%. Approx how many apples should he sell for a rupee so as to gain 15%?

- Ops: A. 14

Q 28. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Scheme → Year ↓	X	Y	Z
2008	16	18	19
2009	15	20	24
2010	18	24	30
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2012	17	20	10
2013	10	13	15
2014	12	14	16

Donald invested some amount in scheme Z in 2012 and invested the realized amount in Scheme X in 2013. At the end of 2013 he got Rs. 48400. What is the total amount invested in 2012?

- Ans: A. Rs. 35000
B. Rs. 36000
C. Rs. 40000
D. Rs. 45000

Q 10. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Scheme → Year ↓	X	Y	Z
2008	16	18	19
2009	15	20	24
2010	18	24	30
2011	17	15	18
2012	17	20	10
2013	10	13	15
2014	12	14	16

Chris invested Rs. 60000 in Scheme Y in 2009 and invested the realized amount in Scheme X in 2012. From the realized amount, he has taken out Rs. 20000 for his daughter's education and reinvested the amount in Scheme Z in 2014. What is the total amount that he will receive at the end of 2014?

- Ops:
- A. Rs. 64240
 - B. Cannot Be Determined
 - C. Rs. 84240
 - D. Rs. 74518.4

Q 05. Thomas, during his college times, spends 30% of his monthly salary on rent, 15% on food, 18% on college study materials and 20% on other expenditure. If he saves USD 289 a month. What is his annual salary?

- Ops: A. USD 18500
B. USD 20000
C. USD 20400
D. USD 1700

Q 06. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z run the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Scheme →	X	Y	Z
Year ↓			
2008	16	18	19
2009	15	20	24
2010	18	24	30
2011	17	15	18
2012	17	20	10
2013	10	13	15
2014	12	14	16

Chris invested Rs. 60000 in Scheme Y in 2009 and invested the realized amount in Scheme X in 2012. From the realized amount, he has taken out Rs. 20000 for his daughter's education and reinvested the amount in Scheme Z in 2014. What is the total amount that he will receive at the end of 2014?

- Ops: A. Rs. 84240
B. Rs. 74518.4

Q 14. Read the information and answer the following question:

The table shows the interest rates as on 1st April of each year in three different schemes X, Y and Z running in the finance company PQR from 2008 to 2014.

Given rates of interests are being compounded annually. All the investments are made on 1st April every year.

Scheme → Year ↓	X	Y	Z
2008	16	18	19
2009	15	20	24
2010	18	24	30
2011	17	15	18
2012	17	20	10
2013	10	13	15
2014	12	14	16

Sally invested some amount in Scheme Y in 2009. The amount she got after one year was re-invested in Scheme Z in 2010 for a year. The amount that she finally got at the end of 2010 was Rs. 31200. How much did she invested initially?

- Ops:
- A. Rs. 22000
 - B. Rs. 25000
 - C. Rs. 24000

Ops: A. 12

B. 18

C. 15

D. 9

Reset

Q 13. What is the total simple interest earned by the bank if they disburses the four equal sum of Rs. 21000 to four different persons Kevin, Karl, Kent and Kenny at 5%, 6%, 7% and 8% rate for the period of 1 years, 2 years, 3 years and 4 years respectively.

Ops: A. Rs. 15000

B. Rs. 16000

C. Rs. 14700

D. Rs. 14000

Reset

Q 14. There are 240 boys and 450 girls in a school. For a donation towards Flood Relief Fund in a certain month, each boy donate rupees as 25 % of the total number of boys and each girl donated as many rupees as 30% of the total number of girls. What total donation made by the school in that month?

Ops: A. Rs. 74500

Q 27. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the mart. Amaira bought the plates and receive a 33% discount. Because of that, she will be able to buy a set of spoons for Rs. 328 and pay transportation charges of Rs. 35. What is the initial amount she had with her?

- Opse:
- A. Rs. 1000
 - B. Rs. 1240
 - C. Rs. 1100
 - D. Rs. 1060

Q 12. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the mart. Amaira bought the plates and receive a 33% discount. Because of that, she will be able to buy a set of spoons for Rs. 328 and pay transportation charges of Rs. 35. What is the initial amount she had with her?

- Ops:**
- A. Rs. 1100
 - B. Rs. 1060
 - C. Rs. 1000
 - D. Rs. 1240
-

Q19. What is the number of word formed using the letter of word 'ORTHODOXY if all the O are placed together?

Ops: A. 5040

B. 2880

C.720

D. 1440

52-2480020

Q 20. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the mart. Amaira bought the plates and receive a 33% discount. Because of that, she will be able to buy a set of spoons for Rs. 328 and pay transportation charges of Rs. 35. What is the initial amount she had with her?

Ops: A. Rs. 1000

B. Rs. 1240

C. Rs. 1100

D. Rs. 1060

Q 06. Amaira went to supermart to buy crokery plates. The amount she had with him is equal to list price of one of the crokery plate in the mart. Amaira bought the plates and receive a 33% discount. Because of that, she will be able to buy a set of spoons for Rs. 328 and pay transportation charges of Rs. 35. What is the initial amount she had with her?

- Ops:
- A. Rs. 1000
 - B. Rs. 1060
 - C. Rs. 1240
 - D. Rs. 1100

Q 07. Barack has to cover a distance of 4865 km in total of 7 days travelling by car. If he has covered 553 km each for 2 days and then had to rest for a day. On the rest day, he covers 159 km. What will be the average speed per day at which he has to travel the remaining distance if he has to report in the office on time?

- Ops:
- A. 1000 km
 - B. 900 km
 - C. 1100 km
 - D. 875 km

Question

A 500-litre water storage tank is situated at the top of a building at a height of 300 feet. The tank, which is completely full, has two outlet pipes and one inlet pipe. Veeru climbs up to the tank and opens an outlet which can empty a full tank in 10 minutes. At the same time Jay opens an inlet pipe which can fill an empty tank in 12 minutes.

9. In how much time will the tank be empty?

10. When the tank becomes half empty, Veeru opens the other outlet pipe which can empty a full tank in 15 minutes. In how much time (from the start) will the tank be empty?

11. There are 3 pipes P, Q and R, which could fill a certain container in 38, 44 and 28 minutes respectively. The container is initially empty. Pipe P is opened at 9:41 a.m. 8 minutes later, pipe Q is opened. How many minutes after this should pipe R be opened so that the container will get filled at exactly 10 a.m.?

12. A cistern has 3 pipes P, Q and R. P and Q can fill it in 6 and 5 hours respectively and R can empty it in 2 hours. If these pipes are opened in order (i.e. P, Q and R) at 6 a.m., 7 a.m. and 8 a.m. respectively, then when will the cistern be empty?

Quantitative Ability

Marks for correct answer: 5 | Negative marks: 1

A tank of height 4 m has two inlet pipes and two outlet pipes attached to it. One outlet pipe is attached to the tank at the bottom while the other outlet pipe is attached to the tank at height 2 m. One inlet pipe is attached to the tank at height 1 m and the other inlet pipe is attached to the tank at height 3 m. Each inlet pipe can completely fill an initially empty tank in 5 hours while each outlet pipe, if attached at the bottom can completely empty an initially full tank in 4 hours. If the tank is initially full, in how much time will the tank be emptied for the first time, given that both the inlet pipes throughout take water in the tank?

- 37 hours 20 minutes
- 29 hours
- 20 hours
- The tank will never be emptied

Marked for Review & Next

Clear Response

Previous

Save and Next



Search

ENG
IN

Refer to the data below and answer the questions that follow.

A 500-litre water storage tank is situated at the top of a building at a height of 300 feet. The tank, which is completely full, has two outlet pipes and one inlet pipe. Veeru climbs up to the tank and opens an outlet which can empty the full tank in 10 minutes. At the same time Jay opens the inlet pipe which can fill the empty tank in 12 minutes.

13/25

When the tank becomes half empty, Veeru opens the other outlet pipe which can empty a full tank in 15 minutes. In how much time (from the start) will the tank be empty?

A 66 minutes

B 75 minutes

C 36 minutes

D 50 minutes

View Answer



11

12

13

14

15

16

17

18

19

20



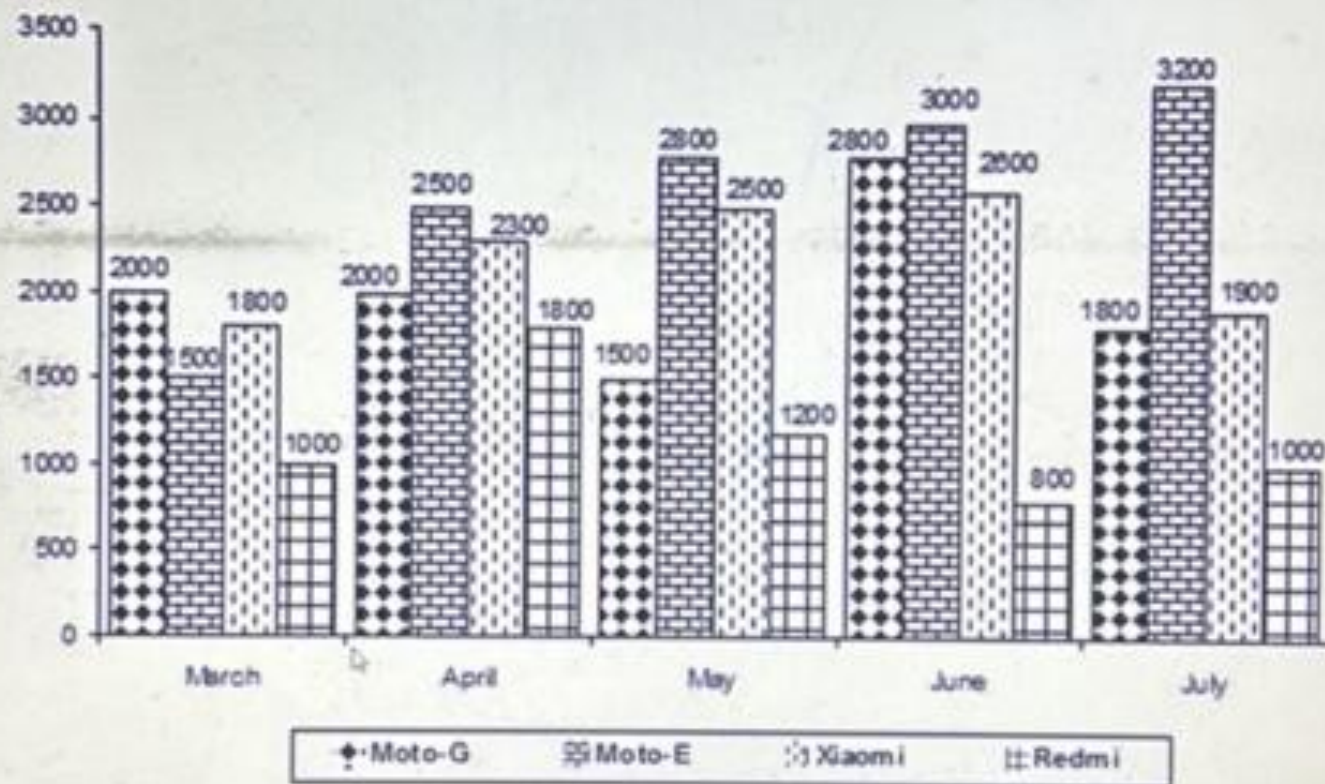
Search



Q 25. Read the information and answer the following question:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

Number of mobile phones sold online



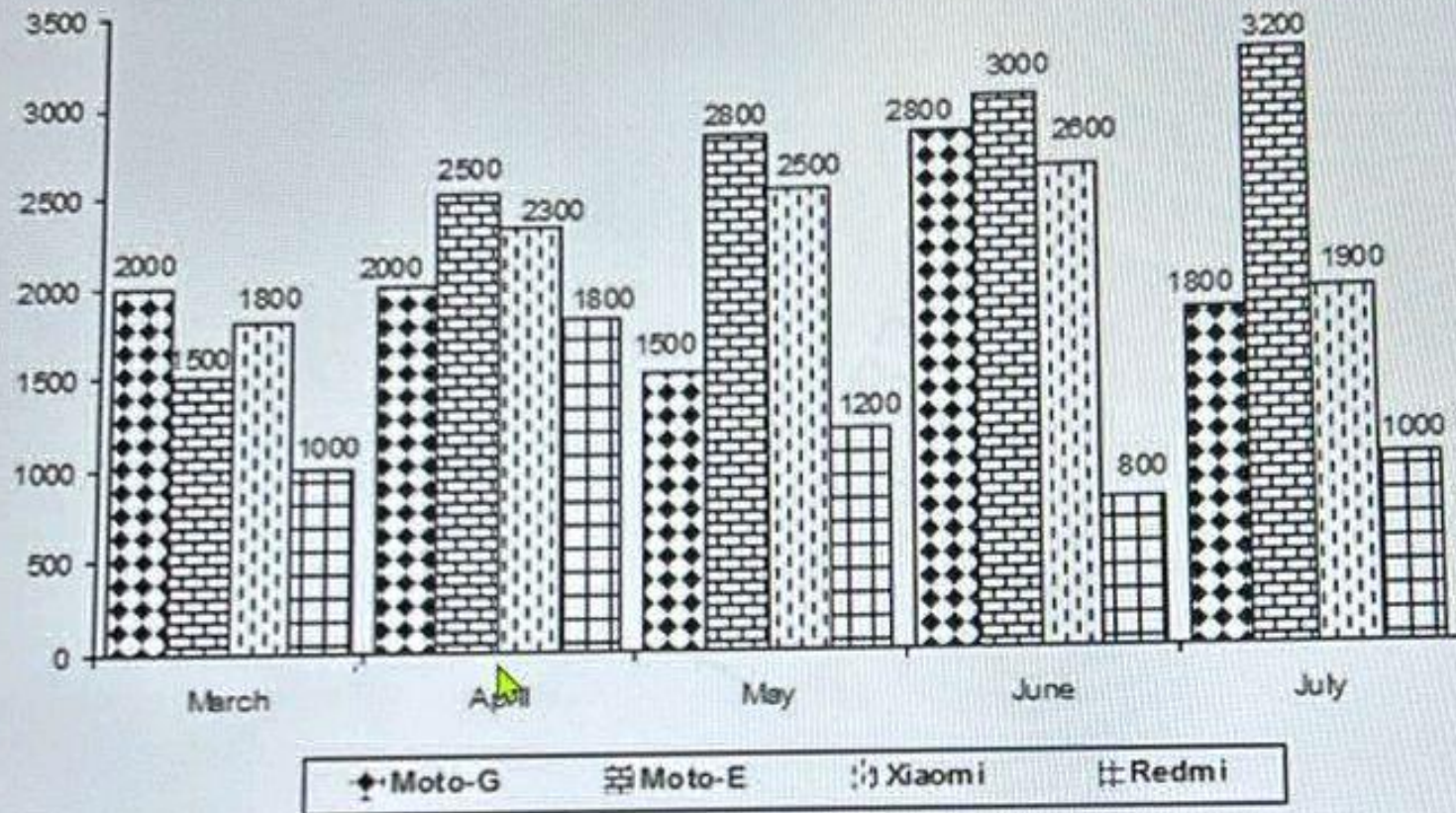
Which of the following can be concluded:

- During the given period of sales, the total number of mobile phones sold in any month increased every month over that of the previous month.
- During April, the number of Xiaomi mobiles sold was more than 27.7% of those sold in March.
- The total number of Moto G mobiles is more than the number of Moto E mobiles sold during the given period.

Q 27. Read the information and answer the following question:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

Number of mobile phones sold online



Which of the following can be concluded:

- (i) During the given period of sales, the total number of mobile phones sold in any month increased every month over that of the previous month.
- (ii) During April, the number of Xiaomi mobiles sold was more than 27.7% of those sold in March.
- (iii) The total number of Moto G mobiles is more than the number of Moto E mobiles sold during the given period.

Ans: A. Only (i)

Q 17. If the difference between the CI and SI at the end of 2 years is Rs. 108, then what is the principal amount if the rate of interest is 10% per annum?

- Ops:
- A. Rs. 30000
 - B. Rs. 21000
 - C. Rs. 18000
 - D. Rs. 23000

Q 18. R, G and B are brothers. R and G are twins. At present, the average age of R and G is $\frac{3}{4}$ of B's present age. Five years ago, The ratio of age of G and B was 3 : 5. What will be R's age five years from now?

- Ops:
- A. 20 years
 - B. 15 years
 - C. 10 years
 - D. 5 years

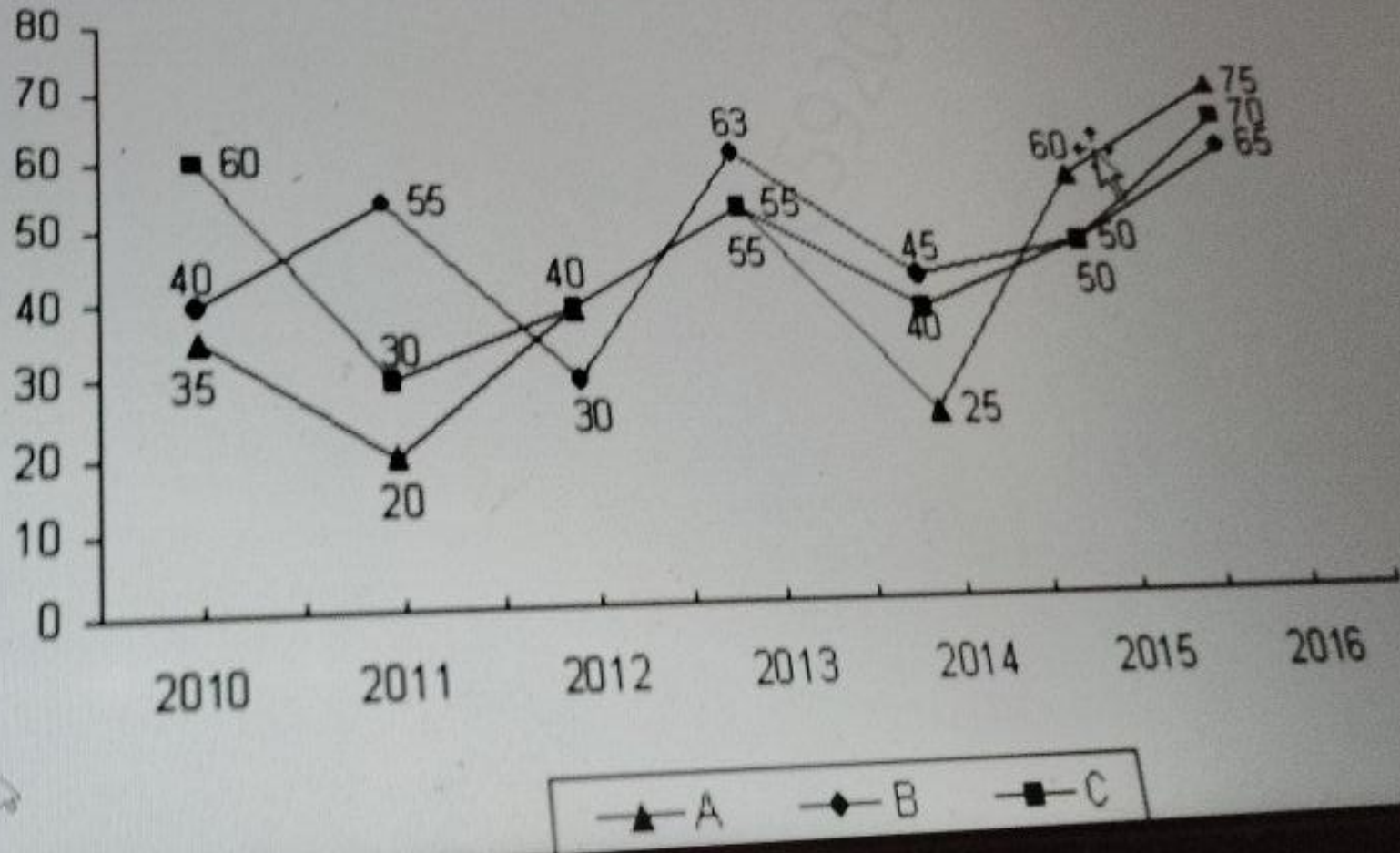
Q 19. Read the information and answer the following questions:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

Number of mobile phones sold online

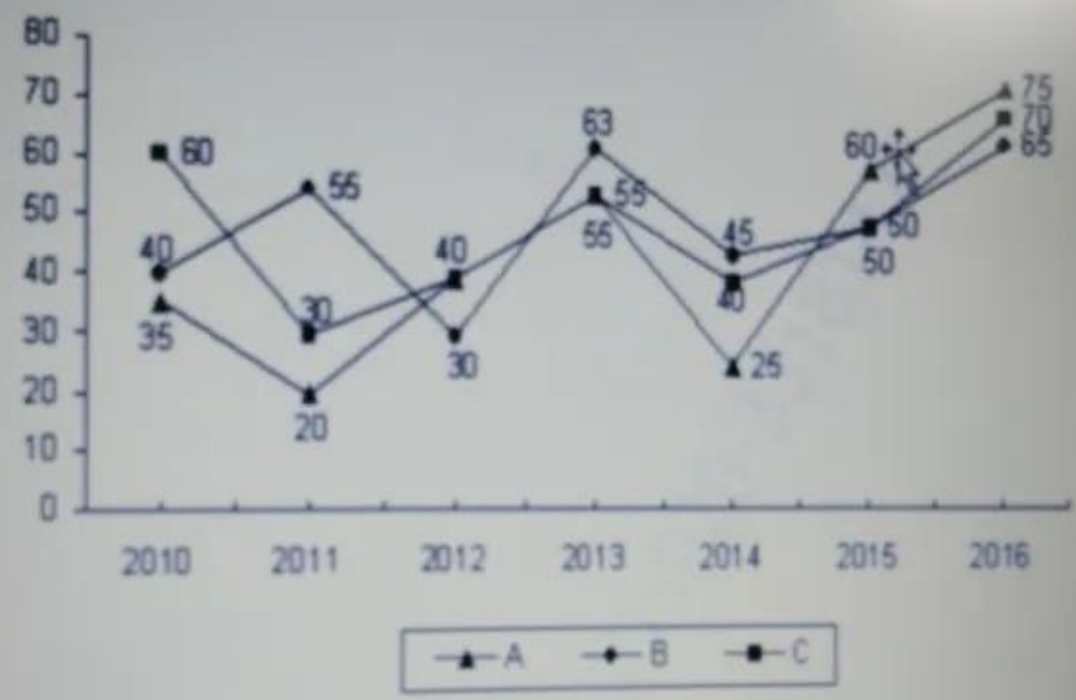
Q 23. Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100



Q 28. Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100



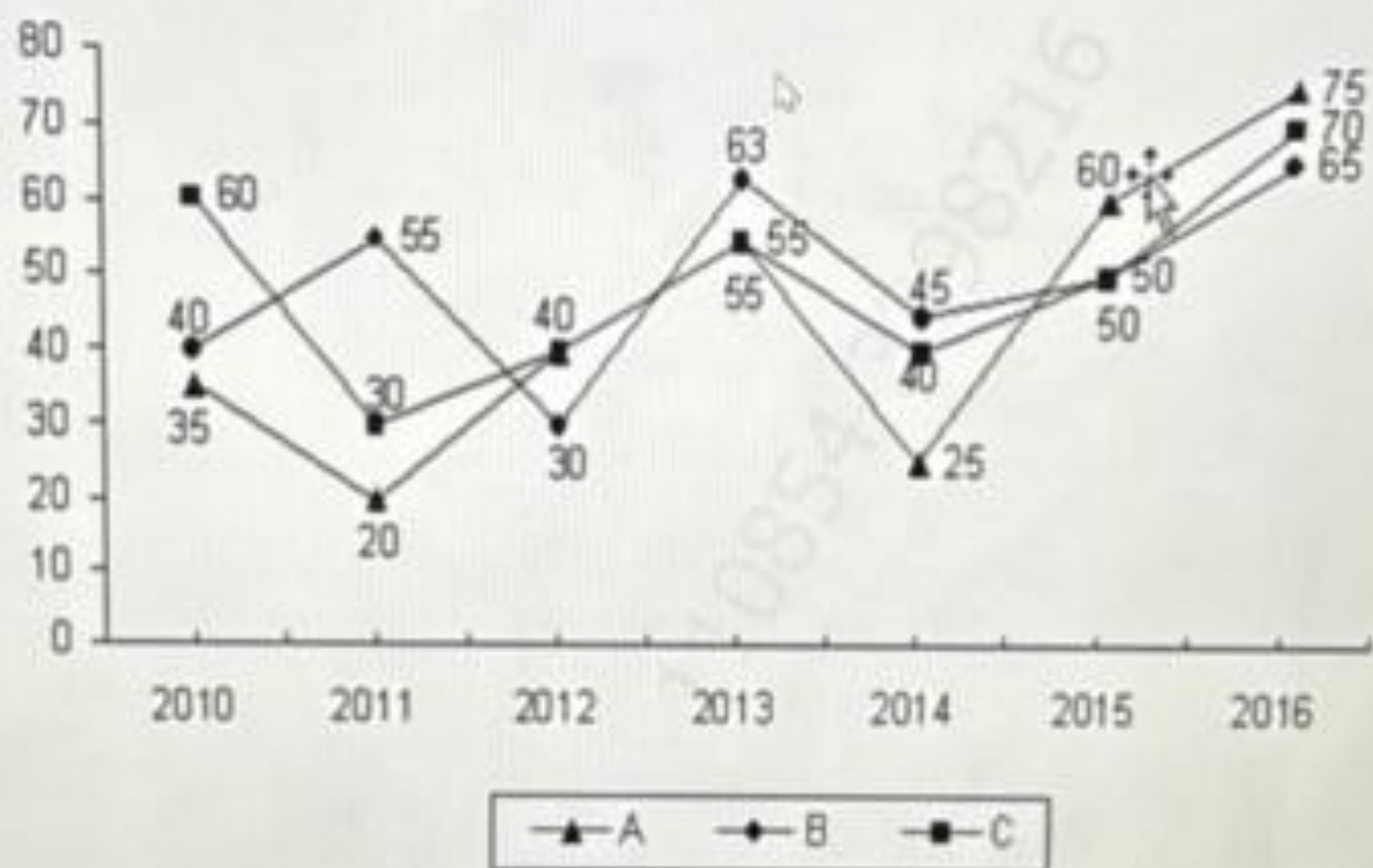
If the profit of the company C increases by 10% in 2012 over its previous year, then what is the ratio of expenditures of C in 2011 and 2012?

- Ops:
- A. Cannot Be Determined
 - B. 13/11
 - C. 11/13
 - D. 7/9

Q 24. Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.

Income = Profit + Expenditure and Profit % = Profit / Income * 100

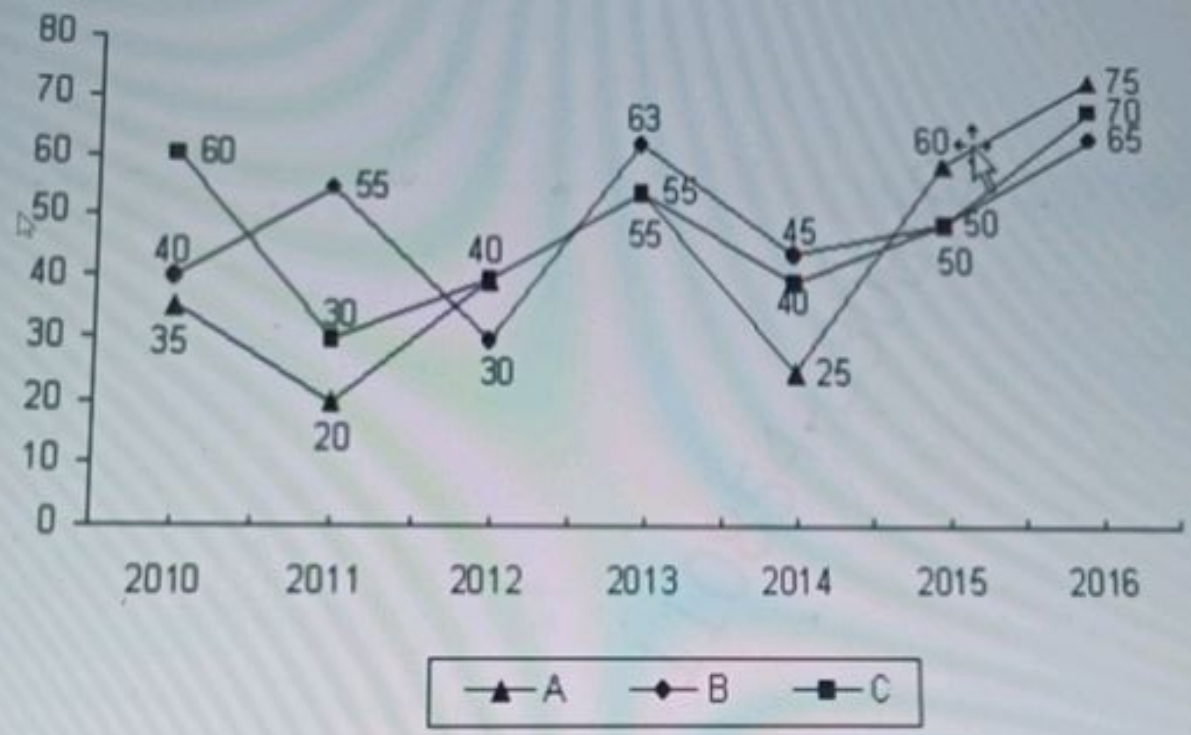


The expenditure of B in 2016 is equal to the income of B in 2012. What is the profit of B in 2016 (in lakhs)?

Ops: A. 30

Q 14. Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100

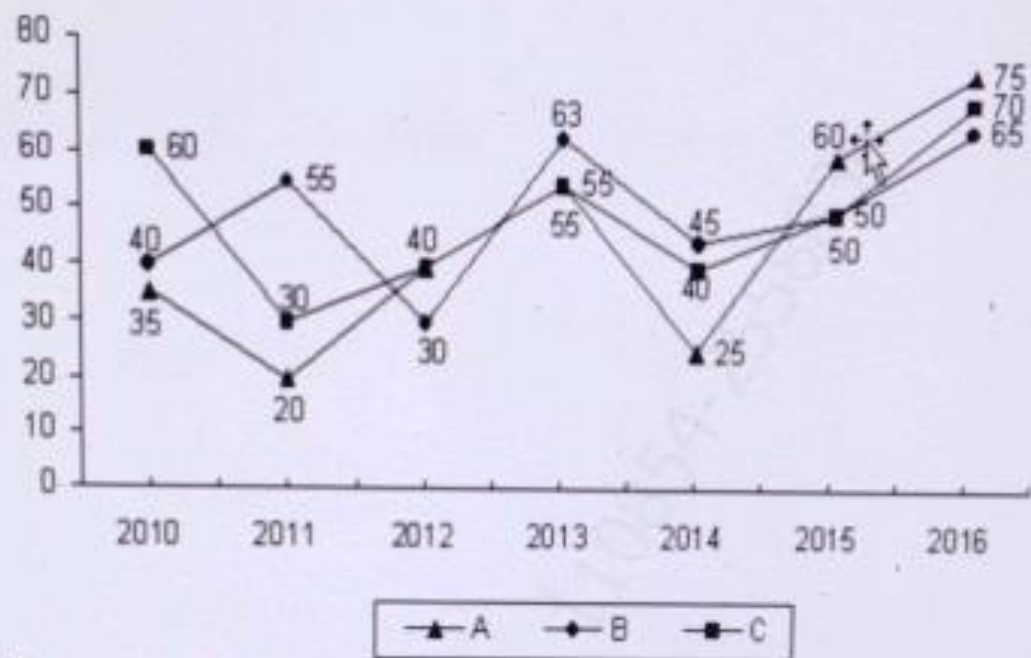


The expenditure of B in 2016 is equal to the income of B in 2012. What is the profit of B in 2016 (in lakhs)?

- Ops: A. 30
B. 32
C. 35
D. 20

Q 22. "Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100



In which year did any company record the highest percentage increase in its income over the previous year?"

- Ops:
- A. 2016
 - B. 2014
 - C. 2015
 - D. 2012



Q 26. Emily buys a pack of drawing sheets whose price was initially increased by 25%. Later, the price was reduced by 10%, and she ended up paying \$180. What was the original price of the pack before any changes were made to the price?

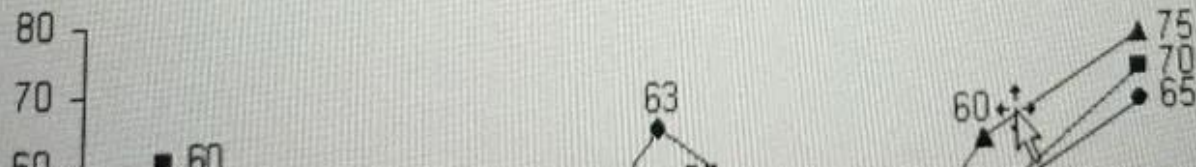
- Ops:
- A. 200
 - B. 160
 - C. 190
 - D. 170

Q 27. A sum of money invested at a certain rate compounded annually doubles itself in 4 years. In how many years will it amount to eight times of itself?

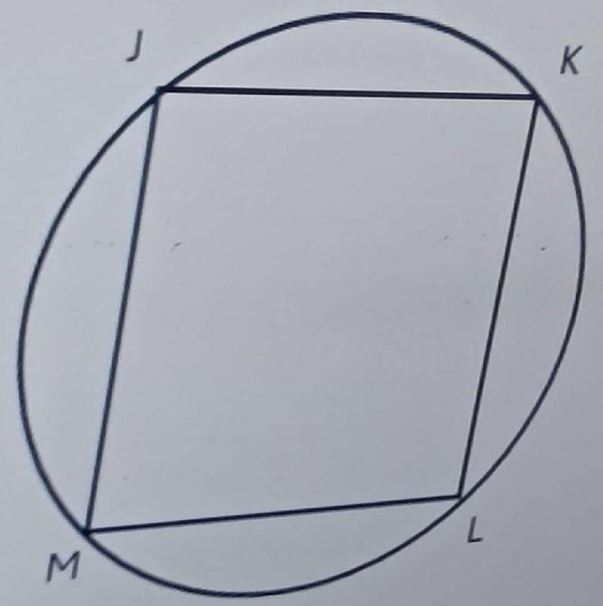
- Ops:
- A. 11 years
 - B. 12 years
 - C. 13 years
 - D. 10 years

Q 28. Read the information and answer the following question:

The following line graph shows the incomes of three chemical companies A, B and C (in lakhs) from 2010 to 2016.
Income = Profit + Expenditure and Profit % = Profit / Income * 100



Q 25. In a given figure, square JKLM is circumscribed by a circle of radius 8 cm. What is the area of the square JKLM?



- Ops:
- A. 16 root 2 square centimetre
 - B. 64 root 2 square centimetre
 - C. 64 square centimetre
 - D. 128 square centimetre

Q 26. How many words can be formed by using all the letters of the word 'ADVANTAGE' such that consonants occupy the odd places?

- Ops:
- A. 216
 - B. 720
 - C. 960
 - D. 480

the word are DICE are rearranged to form a word. Then what is the probability that no two vowels and no two consonants

X
↶
⊕
⊖
Q

The letters of the word ALLAHABAD are rearranged to form new words and put in a dictionary. If the dictionary has only these words and one word on every page in alphabetical order then what is the page number on which the word LABADALAH comes?

4.If the letters of the word PRIDE are rearranged to form 5 letter words such that none of the word repeat and the results arranged in ascending order as in a dictionary what is the rank of the word PRIDE?[5]

70. In how many ways can the letters of the word 'ALGEBRA' be rearranged to form a new word, such that the vowels (A, E) are always together and in the same order as in the original word?

[A] 720

[B] 480

[C] 360

[D] 240

67. The letters of the word ALLAHABAD are rearranged to form new words and put in a dictionary. If the dictionary has only these words and one word on every page in alphabetical order then what is the page number on which the word LABADALAH comes?

- A. No, it is not a solution.
- B. Yes, it is a solution for equation 1 only.
- C. Yes, it is a solution for equation 3 only.
- D. Yes, it is a solution for all the equations.

Reset

Q 09. A company has a task that requires 120 hours of work. Worker X can complete the task in 15 hours, Worker Y in 20 hours, and Worker Z in 30 hours. If Worker X works alone for 6 hours, Worker Y works alone for the next 5 hours, and Worker Z works alone for the remaining time, how many hours will Worker Z need to complete the remaining task?

- Ops:**
- A. 15.5 hours
 - B. 10.5 hours
 - C. 12 hours
 - D. 18 hours



01. Quant Assessment

30 questions, 1 mark each

Q 01. A company has a task that requires 120 hours of work. Worker X can complete the task in 15 hours, Worker Y in 20 hours, and Worker Z in 30 hours. If Worker X works alone for 6 hours, Worker Y works alone for the next 5 hours, and Worker Z works alone for the remaining time, how many hours will Worker Z need to complete the remaining task?

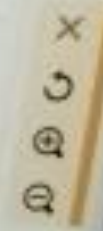
- Ops:
- A. 15.5 hours
 - B. 12 hours
 - C. 10.5 hours
 - D. 18 hours

Q 02. Daniel can clean a house in 12 days and Carl can do the same work in 8 days. With the help of Mark, they did the job in 4 days only. In how many days, can Mark alone clean the house?

- Ops:
- A. 24 days
 - B. 2 days
 - C. 12 days
 - D. 6 days

Q 03. Bag A contains 4 red balls and 6 black balls. Bag B contains 5 red and 2 black balls. If one ball is selected from one of the bags, then what is the probability that the ball is red?

- Ops:
- A. 13/15
 - B. 13/30
 - C. 39/35
 - D. 39/70



Candidate 4355204
Candidate ID: 47400961



25 : 13
min sec

Reset

Q 04. The initial population of village at the beginning of 2019 is 450000. The population increases by 10% by the end of 2019, again increased by 18% by the end 2020 but decreases by 27% due to covid by end of 2021. What is the approx. percentage increase/decrease in the population after 3 years?

- Ops:
- A. 3% decrease
 - B. 6% increase
 - C. 7% increase
 - D. 5.4% decrease

Q 05. A company has a task that requires 120 hours of work. Worker X can complete the task in 15 hours, Worker Y in 20 hours, and Worker Z in 30 hours. If Worker X works alone for 6 hours, Worker Y works alone for the next 5 hours, and Worker Z works alone for the remaining time, how many hours will Worker Z need to complete the remaining task?

- Ops:
- A. 12 hours
 - B. 18 hours
 - C. 15.5 hours
 - D. 10.5 hours

Q 16. A fraction is such that if 7 is added to the numerator, it becomes 3 and if 1 is subtracted from the denominator, it becomes 4. What is the fraction?

- ps: A. $8/5$
B. $7/6$
C. $7/4$
D. $8/7$

Reset

Q 12. A speed boat takes 7 hours and 8 hours 30 mins hours to travel 119 km in downstream the river?

- Ops:
- A. 2 km/hr
 - B. 1.5 km/hr
 - C. 1.85 km/hr
 - D. 2.25 km/hr



paid through Paytm in 2012 is equal to average of students who paid through Paytm in 2016 and 2017 together and students who paid through Paytm is $\frac{3}{5}$ th of the total students in 2012. Find total students in 2012?

- Ops:**
- A. 10235
 - B. 11375
 - C. 10425
 - D. 12335

Q 18. Robert can row a boat p km upstream and the same distance downstream in 5 hours and 30 minutes. Also he can row the boat p km downstream in 3 hours and 45 minutes. He will row the $2p$ distance upstream in how much time?

- Ops:**
- A. 7 hours
 - B. 8 hours 30 mins
 - C. 8 hours
 - D. 7 hours 45 mins

Q 19. P, Q, R and S started a business, with respective investment of Rs. 7000, Rs. 6000, Rs. 5000 and Rs. 4000. P left the business after four months. Q left the business after another two months, R left the business after another two months and S stayed till the end of the year. What fraction of annual profit did S get?

Pankaj and Qureshi entered into a clothing business with capitals Rs. 75000 and Rs. 105000 respectively. After three months, both have invested Rs. 25000 more. What is the difference between their shares if the year end profit is of Rs. 58000?

Ops:

A. Rs. 10500

B. Rs. 8000

C. Rs. 2000

D. Rs. 5000

Q 29. Pankaj and Qureshi entered into a clothing business with capitals Rs. 75000 and Rs. 105000 respectively. After three months, both have invested Rs. 25000 more. What is the difference between their shares if the year end profit is of Rs. 58000?

- Ops:**
- A. Rs. 10500
 - B. Rs. 2000
 - C. Rs. 5000
 - D. Rs. 8000

Q 30. A car driver drives for 300 km at 20 km/hour. If the car driver takes 7 min rest every 15 km distance in his journey, how much time did the driver take to complete the distance?

- Ops:**
- A. 17 hours 13 minutes
 - B. 16 hours and 30 minutes
 - C. 16 hours and 48 minutes
 - D. 18 hours

Q 21. After obtaining two successive discounts of 30% and 15%, Chandler purchases a video game for Rs. 21420. What was the marked price of the video game?

- Ops:
- A. Rs. 33200
 - B. Rs. 35000
 - C. Rs. 36000
 - D. Rs. 30600

Q 22. If two fair dice are rolled simultaneously, what is the probability that the sum of the numbers on their upper faces is odd and greater than 7?

- Ops:
- A. $1/4$
 - B. $3/12$
 - C. $1/6$
 - D. $5/6$

Q 23. Pankaj and Qureshi entered into a clothing business with capitals Rs. 75000 and Rs. 105000 respectively. After three months, both have invested Rs. 25000 more. What is the difference between their shares if the year end profit is of Rs. 58000?

- Ops:
- A. Rs. 10500
 - B. Rs. 5000
 - C. Rs. 8000
 - D. Rs. 2000

Q 13. Three workers, X, Y, and Z, paint a house. X takes 15 days alone, Y takes 20 days alone, and Z takes 30 days alone. X starts painting and works for 5 days. Then, Y and Z join X to finish the job. How many days will it take to complete the remaining work after the first 5 days?

- Ops: A. 3
B. 4
C. 4.44
D. 5.5

Q 14. In a general store, the profit is 400% of the cost. If the cost increases by 15% but the selling price remains constant, approximately what percentage of the selling price is the profit?

- Ops: A. 45%
B. 75%
C. 95%
D. 25%

Q 15. Pankaj and Qureshi entered into a clothing business with capitals Rs. 75000 and Rs. 105000 respectively. After three months, both have invested Rs. 25000 more. What is the difference between their shares if the year end profit is of Rs. 58000?

- Ops: A. Rs. 8000
B. Rs. 10500
C. Rs. 5000
D. Rs. 2000

Section

Time Left : 28:54

General English, Reading Comprehension, Verbal Reasoning, Verbal Ability

Analytical and Logical Reasoning

Quantitative, Data Interpretation & Data Sufficiency

Question Type : Single Correct Option

Marks for correct answer : 1; Negative Marks : 0.25

English

Question 46

Ram and Venkat entered into a partnership business with capitals of Rs. 6000 and Rs. 12,000, respectively. After 8 months, they both invested Rs. 4000 each. Find the difference between their shares in the annual profit of Rs. 10,200.

- Rs. 1800
- Rs. 2400
- Rs. 2800
- Rs. 3200

Mark for Review & Next

Clear Response

Save & Next

There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x. ops: A. 5 B. 2 C. 8 D. 10

Q 02. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x.

- Ops:
- A. 2
 - B. 8
 - C. 5
 - D. 10

Q 28. There are two pipes A and B connected to a tank of 300 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 3 litres/hour. If the total time taken by both the pipes to fill the tank is 60 hours, then find the value of x.

- Ops:
- A. 5
 - B. 8
 - C. 2
 - D. 10

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 29 : 31
 - B. 19 : 17
 - C. 31 : 29
 - D. 17 : 19

Q 15. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops:
- A. 0
 - B. 2
 - C. 1
 - D. -2

Q 16. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

- Ops:
- A. 6497
 - B. 6487
 - C. None of the mentioned options
 - D. 6317

Q 17. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

Q 22. Somesh borrowed ₹36,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

- Ops: A. ₹45,254
B. ₹47,916
C. ₹41,952
D. ₹50,578

Q 23. Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Paula takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

- Ops: A. 24.8 km/hr
B. 34.92 km/hr
C. 24.92 km/hr
D. 35.1 km/hr

Q 24. If 31 is subtracted from 2 times of a number, the answer is 9. Find the number.

- Ops: A. 20
B. 24
C. 18
D. 15

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 29 : 31
 - B. 19 : 17
 - C. 31 : 29
 - D. 17 : 19

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- Ops:
- A. 0
 - B. 2
 - C. 1
 - D. -2

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- A. 6497
 - B. 6487
 - C. None of the mentioned options
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01. Quant Assessment

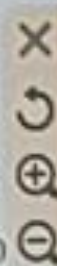
30 questions, 1 mark each

Q 01. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are x m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 750 m from Block Q. If the ratio of the speed of Morrie and Maryline is 3 : 4, then which of the following can be the value of x ?

- Ops:
- A. 3125
 - B. 2625
 - C. 2750
 - D. 2500

Q 02. Minny was asked to find $(7/5)$ th of a number. She instead multiplied the number by $(5/7)$ and obtained an answer that was 10 more than the correct answer. Find the correct answer.

- Ops:
- A. 2113
 - B. 1960
 - C. 980
 - D. 1470





01. Quant Assessment

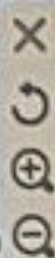
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Q 01. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are x m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 750 m from Block Q. If the ratio of the speed of Morrie and Maryline is 3 : 4, then which of the following can be the value of x ?

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- Ops:
- A. 2113
 - B. 1960
 - C. 980
 - D. 1470



Q 01. Let X and Y be two independent events. The probability that exactly one of them occur is $41/84$ and the probability of none of them occurring is $15/84$, then find the value of $P(X)/P(Y)$.

- Ops: A. $49/48$
B. $7/12$
C. $4/7$
D. $48/49$

Q 02. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are x m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 750 m from Block Q. If the ratio of the speed of Morrie and Maryline is $3 : 4$, then which of the following can be the value of x ?

- Ops: A. 2625
B. 3125
C. 2750
D. 2500

Q 03. If $m : n = 9 : 7$ and $m = p + q$ and $n = p - q$, then find $(p : q) - 3$.

Q 21. Billiard, a con-man, was running along a road at 12 km/hr. He crossed a policeman moving at a speed of 15 km/hr in the opposite direction. The policeman had to continue for 8 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the policeman to catch the con-man from the time he crossed him?

- Ans: A. 90
B. 72
C. 80
D. 27

Q 22. Two numbers are selected among 1, 2, 3, 4, 5, 6, 7, 8 and 9 at random. What is the probability that their sum is odd?

- Ans: A. 2/9
B. 5/9
C. None of the mentioned options
D. 4/9

Reset

Q 23. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

- Ans: A. 15.33
B. 12.25
C. 11.67
D. 13.75

et. It can complete the same task in 24 days. Christian started

D. 5 hours

Reset

Q 02. Vinay borrowed ₹32,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

- Ops:
- A. ₹50,578
 - B. ₹45,254
 - C. ₹42,592
 - D. ₹47,916

reset

Q 06. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

- Ops:**
- A. 12.25
 - B. 15.33
 - C. 13.75
 - D. 11.67

Q 14. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:** A. 29 : 31
B. 19 : 17
C. 31 : 29
D. 17 : 19

Q 15. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops:** A. 0
B. 2
C. 1
D. -2

Q 16. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

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Q 28. There are two pipes A and B connected to a tank of 500 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 8 litres/hour. If the total time taken by both the pipes to fill the tank is 80 hours, then find the value of x.

- Ops:
- A. 14.25
 - B. 16.67
 - C. 18.25
 - D. 12.33

B. 0.74

C. 0.9

D. 0.82

Reset

Q 11. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

Ops: A. 51 km/hr

B. 48 km/hr

C. 31 km/hr

D. 26 km/hr

Reset

Q 12. Chloe bought 2 paintings for \$45,000. If she sells first at a profit of 10% then how much percent of profit should she sell the other for, so that she makes a profit of 30% on the whole?

Ops: A. 10%

B. 35%

Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 3 hours to reach her destination, while Paula takes 5 hours to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

- A. $6 \cdot 7!$
- B. $12 \cdot 7!$
- C. $12 \cdot 8!$
- D. $6 \cdot 8!$

formed using all the letters of word 'TAXPAYING' such that position of Y doesn't change with respect to

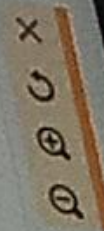
Q 08. Sara was asked to find $(7/8)^{\text{th}}$ of a number. She instead multiplied the number by $(8/7)$ and obtained an answer which was 300 more than the correct answer. Find the correct answer.

- Ops:
- A. 980
 - B. 2450
 - C. 1960
 - D. 1470

Q 09. Jacy and Sandy leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sandy takes 3 hours to reach her destination, while Jacy takes 5 hours to reach her destination. If the speed of Sandy is 40 km/hr, what is the speed of Jacy?

- A. 26 km/hr
- B. 48 km/hr
- C. 51 km/hr
- D. 31 km/hr

Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 30,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.



Q 24. Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 40,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.

- Ops:
- A. 4000000
 - B. 400000
 - C. 40000000
 - D. 1000000

Q 25. Michael was asked to find $\frac{5}{6}$ times of the number and he instead multiplied it by $\frac{6}{5}$. As a result, he got an answer which was more than the correct answer by 319. What is the number?

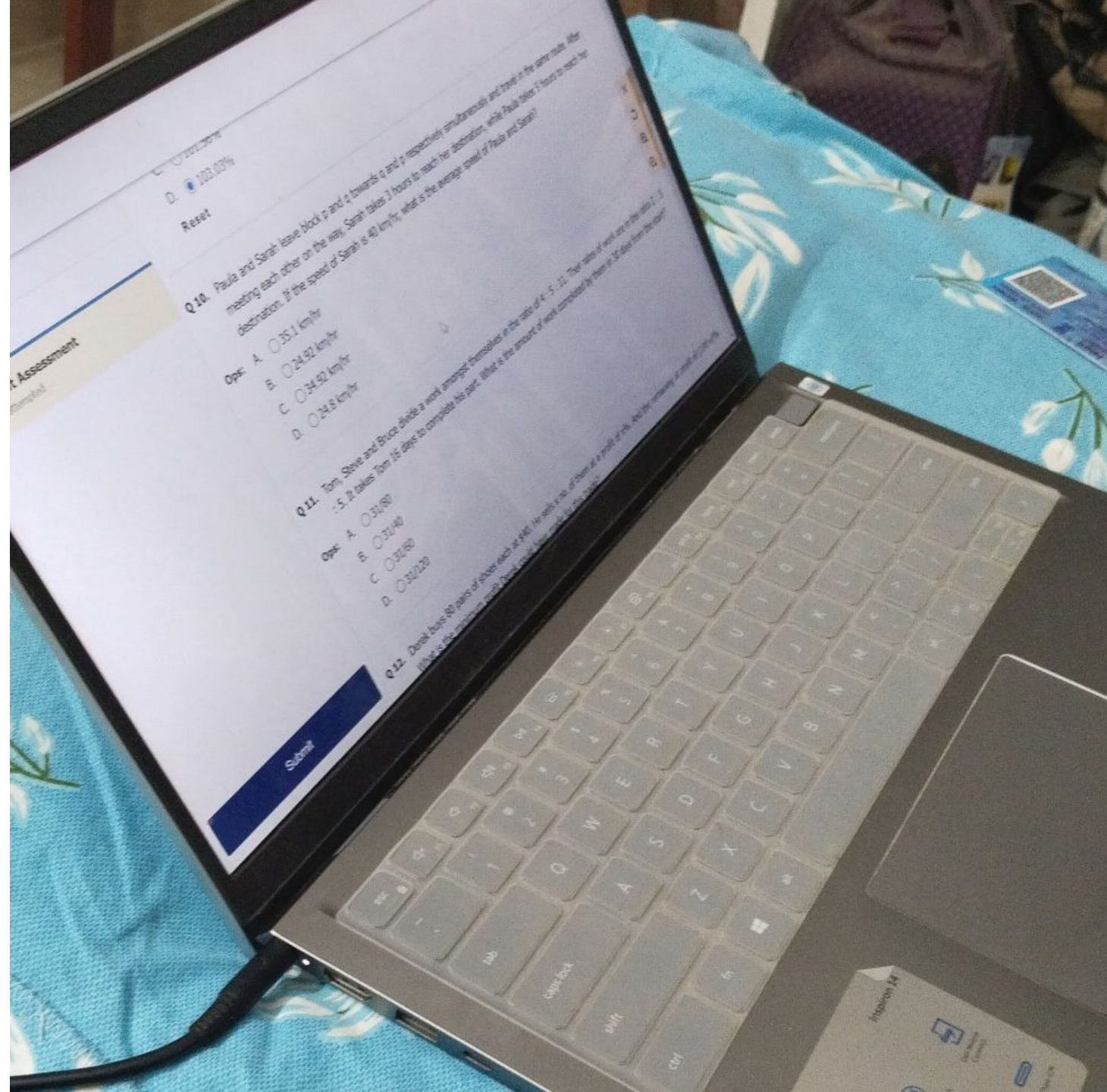
- Ops:
- A. 1040
 - B. 870
 - C. 900
 - D. 638

Q 26. Mira bought a video game for \$275 and sold it for \$297. Find her profit percentage.

- Ops:
- A. 6%
 - B. 8%
 - C. 12%
 - D. 4%

Q 27. The ratio of the ages of Molly, Peri, and Samantha is 3 : 8 : 10. If Samantha's age is 40 years old, then find the age of Molly.

- Ops:
- A. 28 years
 - B. 12 years
 - C. 20 years
 - D. 32 years



0/100.00%
100.00%
Reset

Assessment

Q.10. Paula and Sarah leave block p and q towards q and p respectively simultaneously and travel in the same route. After meeting each other on the way, Sarah takes 2 hours to reach her destination, while Paula takes 1 hour to reach her destination. If the speed of Sarah is 40 km/hr, what is the average speed of Paula and Sarah?

- Options:
- A. 35.1 km/hr
 - B. 24.92 km/hr
 - C. 34.92 km/hr
 - D. 24.8 km/hr

Q.11. Tom, Steve and Bruce divide a work amongst themselves in the ratio of 4 : 5 : 11. The ratio of work done in the ratio 1 : 2 : 3. It takes Tom 15 days to complete his part. What is the amount of work completed by Steve in 30 days from the start?

- Options:
- A. 31/80
 - B. 31/40
 - C. 31/80
 - D. 31/220

Q.12. Doreal buys 80 pairs of shoes each at \$40. He sells a no. of them at a profit of x% and the remaining at a profit of y%. If he had sold the remaining shoes at a profit of 20%, he would have made a profit of \$1600.

Submit

Inspiron 14
Power Button
Volume
Microphone

Q 06. Derek buys 80 pairs of shoes each at \$40. He sells x no. of them at a profit of $x\%$. And the remaining at profit of $(100-x)\%$. What is the minimum profit Derek could have made for this trade?

- Ops:
- A. 2025
 - B. 3200
 - C. 1580
 - D. 1600

Two numbers are in the ratio $7 : 11$. If the difference of the numbers is 24, then find the smaller of the two numbers.

- A. 52
- B. 44
- C. 42
- D. 66

Reset

Derek buys 80 pairs of shoes each at \$40. He sells x no. of them at a profit of $x\%$. And the remaining at profit of $(100-x)\%$. What is minimum profit Derek could have made for this trade?

- A. 3200
- B. 2025
- C. 1580
- D. 1600

... selling price of x articles. Find the value of x , if the profit is 25%.

01. Quant Assessment

Q 01. Three investors, John, Shane, and David, invest in a venture with contributions in the ratio 4:5:6. After one year, John's investment grows by 20%, Shane's investment grows by 15%, and David's investment remains the same. If the total profit after one year is \$1,20,000, how much profit does each investor receive respectively?

- Ops:
- A. \$41,000, \$52,500, \$57,500
 - B. \$43,504, \$52,114, \$54,381
 - C. \$40,679, \$52,557, \$57,589
 - D. \$40,000, \$52,500, \$57,500

Q 02. In a race of 1300 m, Lowe can beat Latham by 300 m. In another race of 5000 m, Latham can beat Lander by 1000 m. By what distance can Lowe beat Lander in a race of 7800 m?

- Ops:
- A. 3000 m
 - B. 2350 m
 - C. 2800 m
 - D. 2500 m

Q 03. If price of an article becomes \$720 after a decrease of 35%. What will the price after an increase of 17%?

- Ops:
- A. \$1296
 - B. \$986
 - C. \$972
 - D. \$1138

Q 04. Two workers, A and B, can complete a task together in 12 days. A alone can complete the task in 20 days. If A and B work together for

Submit

Q 04. Two workers, A and B, can complete a task together in 12 days. A alone can complete the task in 20 days. If A and B work together for the first 8 days, how many more days will B take to finish the remaining work?

Ops: A. 10
B. 8
C. 12
D. 14

Q 05. In a company Rely united pvt. Ltd., 25% of total women are more than 29 years old and 80% of the total women are less than or equal to 60 years old. 30% of all women play golf. If 20% of the women above the age of 60 play golf, what percentage of the golf players are less than or equal to 60 years?

Ops: A. 0.7225
B. 0.6567
C. 0.8666
D. 0.8126

Q 06. In an examination, P and Q scored 68% and 42% respectively. If the score of Q is 24 less and that of P is 32 more than the score of R, then what would be the score of S who scored 78%?

Ops: A. 326
B. 168
C. 354
D. 152

152

Q 07. In a tournament, the ratio of wins for Rock to Paper is 7:5. If the number of wins for Paper is 25, how many wins did Rock have?

- Ops:
- A. 12
 - B. 35
 - C. 44
 - D. 54

Q 08. Jacob invests \$980,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$1,250,756, then find x .

- Ops:
- A. 16%
 - B. 8%
 - C. 20%
 - D. 12%

Q 09. There are 11 points on a plane. Of these 11 points, four points are in a straight line, and except for these four points, no other three points are in the same straight line. Find the number of triangles formed.

- Ops:
- A. 188
 - B. 172
 - C. 158
 - D. 161

Q 10. A cyclist has to cover a distance of 12 km in 3 hours and 12 minutes. He covers $\frac{1}{3}$ of the distance in one half of time. He then covers $\frac{2}{5}$ th of the distance in $\frac{1}{6}$ th of time. What should be the speed of cyclist to cover the remaining distance in remaining time?

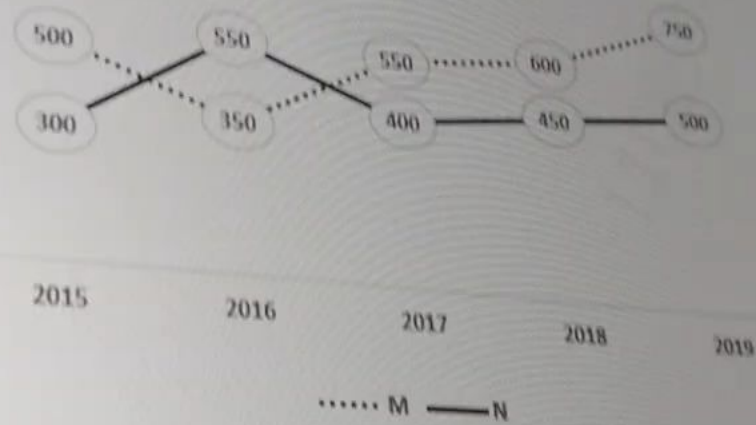
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Q 10. A cyclist has to cover a distance of 12 km in 3 hours and 12 minutes. He covers $\frac{1}{3}$ of the distance in one half of time. He then covers $\frac{2}{5}$ th of the distance in $\frac{1}{6}$ th of time. What should be the speed of cyclist to cover the remaining distance in remaining time?

Ops: A. 3 km/hr
 B. 6 km/hr
 C. 2.13 km/hr
 D. 4.2 km/hr

Q 11. The following line graph gives the number of computer peripherals (in millions) exported by two countries M and N from 2015 to 2019. Study the graph carefully and answer the question that follows.

Number of computer peripherals (in millions) exported by two countries M and N across five years



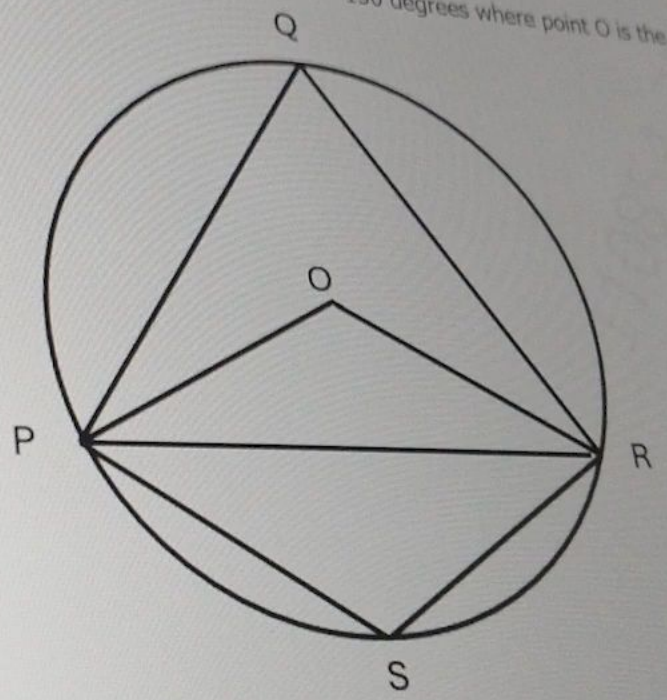
What is the percentage increase in the number of computer peripherals exported by country M from 2015 to 2019?

Ops: A. 0.5
 B. 0.42

Submit

- Q 12. Sara was asked to find $(7/8)^{th}$ of a number. She instead multiplied the number by 317 and obtained an answer that was 72 more than the correct answer. Find the correct answer.
- Ops: A. 1470
B. 2450
C. 1960
D. 980

Q 13. In the given figure, If angle POR = 150 degrees where point O is the center of the circle. What is the measure of angle PSR?



- Ops: A. 75 degrees
B. 210 degrees



- Ops:
- A. 75 degrees
 - B. 210 degrees
 - C. 105 degrees
 - D. 30 degrees

Q 14. Daniel can clean a house in 12 days and Carl can do the same work in 8 days. With the help of Mark, they did the job in 4 days only. In how many days, can Mark alone clean the house?

- Ops:
- A. 2 days
 - B. 6 days
 - C. 24 days
 - D. 12 days

Submit



... circular track at M. Sara starts running in clockwise direction from the point M on the circular track. There is a
... 5 minutes after she starts. Find the time required by her to complete running a round on the track.

- Ops:
- A. 40 minutes
 - B. 36 minutes
 - C. 30 minutes
 - D. 45 minutes

Q 16. There are 16 points on a plane such that 4 points are on a straight line and no three points from the remaining points are on a straight line. Find the number of straight line that can be drawn.

- Ops:
- A. 79
 - B. 115
 - C. 120
 - D. 67

Q 17. Eddie has an unbiased coin and he tosses the coin 11 times. What is the probability that he would get more heads than tails?

- Ops:
- A. $193/1024$
 - B. $111/1024$
 - C. $727/2048$
 - D. $729/2048$

Q 18. John walks to his school daily which has a distance of 'd' km. He covers the first quarter of the distance at a speed of 3 kmph, second quarters at 6 kmph, third quarter at 4 kmph and the rest at 7 kmph. What his average speed (in kmph)?

- Ops:
- A. 4.48

Submit

Q 18. John walks to his school daily which has a distance of 'd' km. He covers the first quarter of the distance at a speed of 3 kmph, second quarter at 6 kmph, third quarter at 4 kmph and the rest at 7 kmph. What is his average speed (in kmph)?

- Ops:
- A. 4.48
 - B. 6.3
 - C. 5.52
 - D. Cannot be determined

Q 19. The selling price of a desk is 91% of its cost price. Find the loss percentage.

- Ops:
- A. 0.09
 - B. 0.08
 - C. 0.12
 - D. 0.13

Q 20. M and N are two independent events. The probability that both M and N occur is $\frac{1}{24}$ and the probability that neither of them occurs is $\frac{5}{8}$. Find the probability of the occurrence of M.

- Ops:
- A. $\frac{1}{12}$
 - B. $\frac{1}{4}$
 - C. $\frac{1}{16}$
 - D. $\frac{1}{8}$

Q 21. The cost price of 30 articles is the same as the selling price of x articles. Find the value of x, if the profit is 25%.

- Ops:
- A. 14
 - B. 16

Q 21. The cost price of 30 articles is the same as the selling price of x articles. Find the value of x , if the profit is 20%.

- Ops:
- A. 14
 - B. 16
 - C. 24
 - D. 26

Q 22. Caleb can work $\frac{2}{5}$ times as fast as Charles and Cameron work together. Caleb and Cameron can work together two times as fast as Charles. If Charles takes 15 days to complete a task, working alone, then how long would Cameron take to complete the same task, working alone?

- Ops:
- A. $(200/7)$ days
 - B. $(100/3)$ days
 - C. $(105/6)$ days
 - D. $(105/8)$ days

Q 23. Special seats reserved for VIP, Regular, and Balcony sections in a concert are in the ratio 3:5:7. There is a proposal to increase these seats by 25%, 30%, and 50% respectively. What will be the new ratio of seats after the increase?

- Ops:
- A. 15:26:42
 - B. 7:13:17
 - C. 12:7:9
 - D. 21:17:13

Q 24. Lincoln can complete a task in 12 days, Joshua can complete it in 18 days. Chris can complete the same task in 24 days. Chris started the

Submit

Q 24. Lincoln can complete a task in 12 days, Joshua can complete it in 18 days, Chris can complete the same task in 24 days. After 4 days, Lincoln and Joshua joined. If the task is completed in x more days, then find the value of x .

- Ops:
- A. 58/17
 - B. 60/13
 - C. 61/17
 - D. 62/13

Q 25. If one-fourth of a number is 12, then what is the two-third of the same number?

- Ops:
- A. 24
 - B. 28
 - C. 32
 - D. 36

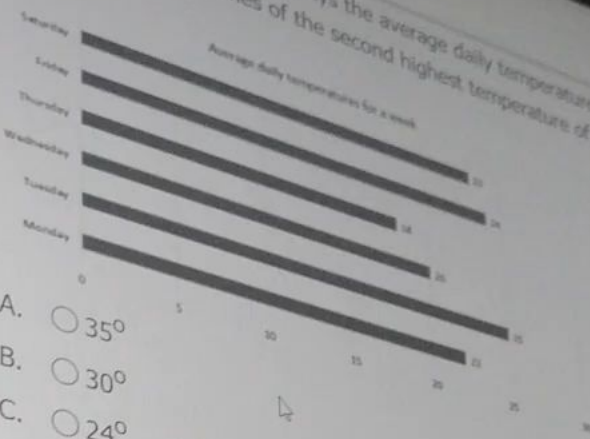
Q 26. Deepak, a bank officer, invests ₹7500 per month. He spends 50% of it on stock market and 40% of the remaining on cryptocurrency market. Out of the remaining amount, he invests in mutual funds. What amount does he invest in mutual funds?

- Ops:
- A. ₹2160
 - B. ₹2250
 - C. ₹2280
 - D. ₹2340

Q 27. This horizontal bar chart displays the average daily temperatures recorded for each day of the week. If the temperature on Thursday was increased by $\frac{1}{4}$ th times of the second highest temperature of the week, what temperature would be experienced on Thursday?

Average daily temperatures for a week

Submit



- Ops:
- A. 35°
 - B. 30°
 - C. 24°
 - D. 18°

Q 28. A merchant buys 100 shirts at \$500 each. He sells 40 shirts at a 10% profit, 30 shirts at a 15% profit, and the remaining 30 shirts at a 20% profit. Calculate the overall profit percentage.

- Ops:
- A. 85%
 - B. 10%
 - C. 20%
 - D. 14.5%

Q 29. Jane invested \$32,000 in a savings bank account that earns 10% interest compounded annually. What's the total amount at the end of 2 years?

- Ops:
- A. \$56029
 - B. \$34069

Submit



- Calculate the overall profit percentage.
- 85%
 - B. 10%
 - C. 20%
 - D. 14.5%

Q 29. Jane invested \$32,000 in a savings bank account that earns 10% interest compounded annually. What's the total amount at the end of 2 years?

Ops:

- A. \$56029
- B. \$34069
- C. \$28490
- D. \$38720

Q 30. What is the minimum value of the following expression on x-axis?

$$13a^2 + 11a + 1$$

- Ops:
- A. -191/52
 - B. 191/52
 - C. 11/26
 - D. -11/26

Submit

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Q 24. In an equilateral triangle XYZ, J, K, and L are the mid points of XY, XZ, and YZ respectively. The area of triangle JKL is 12.13 cm square. What is the area of equilateral triangle XYZ?

- Ops: A. 24.26 cm square
B. 3.03 cm square
C. 48 cm square
D. 48.52 cm square

Q 25. Anand bought two mobiles at the same price. He sold one of them at 20% profit and sold the other at 10% loss. Find the overall profit percentage made by Anand?

- Ops: A. 5%
B. 15%
C. 10%
D. 7.5%

Q 26. By selling 16 pillows, a shopkeeper gains the selling price of 3 pillows. What is his approximate profit percent?

- Ops: A. 25%
B. 24%
C. 23%
D. 22%

Q 27. What is the value of the expression?

$${}^{15}C_8 - {}^{18}P_4 + {}^{11}C_6 - 4! + 2!$$

C. 10%

D. 7.5%

Q 26. By selling 16 pillows, a shopkeeper gains the selling price of 3 pillows. What is his approximate profit percent?

Ops: A. 25%

B. 24%

C. 23%

D. 22%

Q 27. What is the value of the expression?

$${}^{15}C_8 - {}^{18}P_4 + {}^{11}C_6 - 4! + 2!$$

Ops: A. -71243

B. 67857

C. -66565

D. 73462

Q 28. The following horizontal bar chart shows the amount of time spent on different hobbies each week. Calculate the median of the time spent on hobbies.

Weekly time spent on various hobbies

- B. Median: 10
- C. Median: 10.5
- D. Median: 4.5

Q 29. Ujjwal, Mridul and Rohit are working in a factory to prepare the order of utensils delivered to customer. Individually, they can complete the work in 90, 30 and 45 days respectively. In how many days they will complete the work if they work together?

- Ops:
- A. 20 days
 - B. 15 days
 - C. 10 days
 - D. 25 days

Q 30. Adam and Shasha together can complete a school project in 12 days, Shasha and Gary together can complete the project in 15 days and Gary and Adam together can complete the project in 20 days. How long would Adam, Shasha and Gary respectively take to complete the school project?

- Ops:
- A. 30 days, 20 days and 60 days
 - B. 20 days, 30 days and 60 days
 - C. 30 days, 20 days and 30 days
 - D. 20 days, 60 days and 30 days

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vaccines from private hospitals while the remaining taken vaccines from government hospitals. If the difference in the number of members who took the vaccines from government hospital and those who did not respond is 260. What is the percentage of people who did not respond to the people who took vaccines from government hospital?

- Ops:
- A. 28.95%
 - B. 31.40%
 - C. 27.77%
 - D. 26%

Q 21. A jeweller is designing a necklace with 40 gems. Initially, 25% of the gems are diamonds and the rest are sapphires. However, after a client's request, the jeweller replaces 20% of the sapphires with additional diamonds. How many sapphires are left after the modification?

- Ops:
- A. 26
 - B. 12
 - C. 24
 - D. 22

Q 22. Jacob and Carl can complete a piece of work in 18 and 24 days respectively. They worked together for 4 days after which Jacob was replaced by Dixon. If the work gets completed in another 8 days, then calculate the number of days in which Dixon alone could complete twice the original work?

- Ops:
- A. 60 days
 - B. 57.6 days
 - C. 50 days
 - D. 28.8 days

Q 23. A speed boat takes 6 hours and 9 hours to travel 54 km in downstream and upstream respectively. What is the speed of the river?

- Ops: A 3.5 km/hr

What is the percentage of total mobile phones sold online in the month of June and July combined to the March, April and May combined in year 2016?

- Ops:
- A. 66.67%
 - B. Cannot be Determined
 - C. 74.67%
 - D. 71.20%

Q 20. In a survey conducted among society members for polio vaccines, 10% were not responsive and 60% of the remaining respondents taken vaccines from private hospitals while the remaining taken vaccines from government hospitals. If the difference in the number of members who took the vaccines from government hospital and those who did not respond is 260. What is the percentage of people who did not respond to the people who took vaccines from government hospital?

- Ops:
- A. 28.95%
 - B. 31.40%
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- Ops: A. 3.5 km/hr
B. 3 km/hr
C. 2 km/hr
D. 1.5 km/hr

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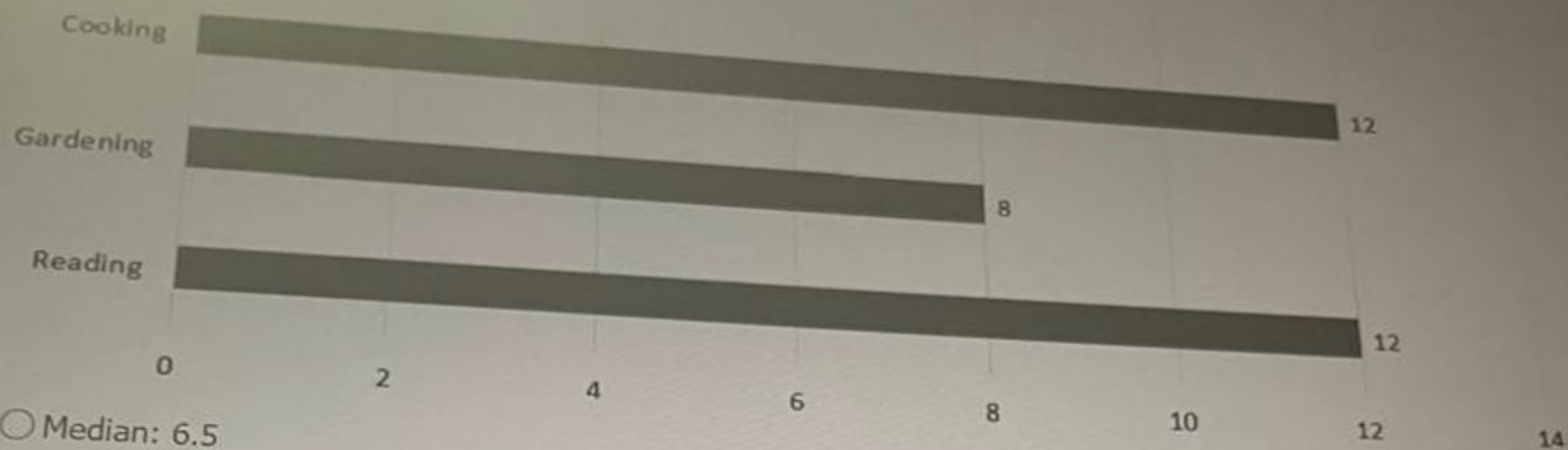
- Ops:
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 - B. 3 km/hr
 - C. 2 km/hr
 - D. 1.5 km/hr

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 - B. 3.03 cm square
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- Ops:
- A. 5%
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 - D. 7.5%



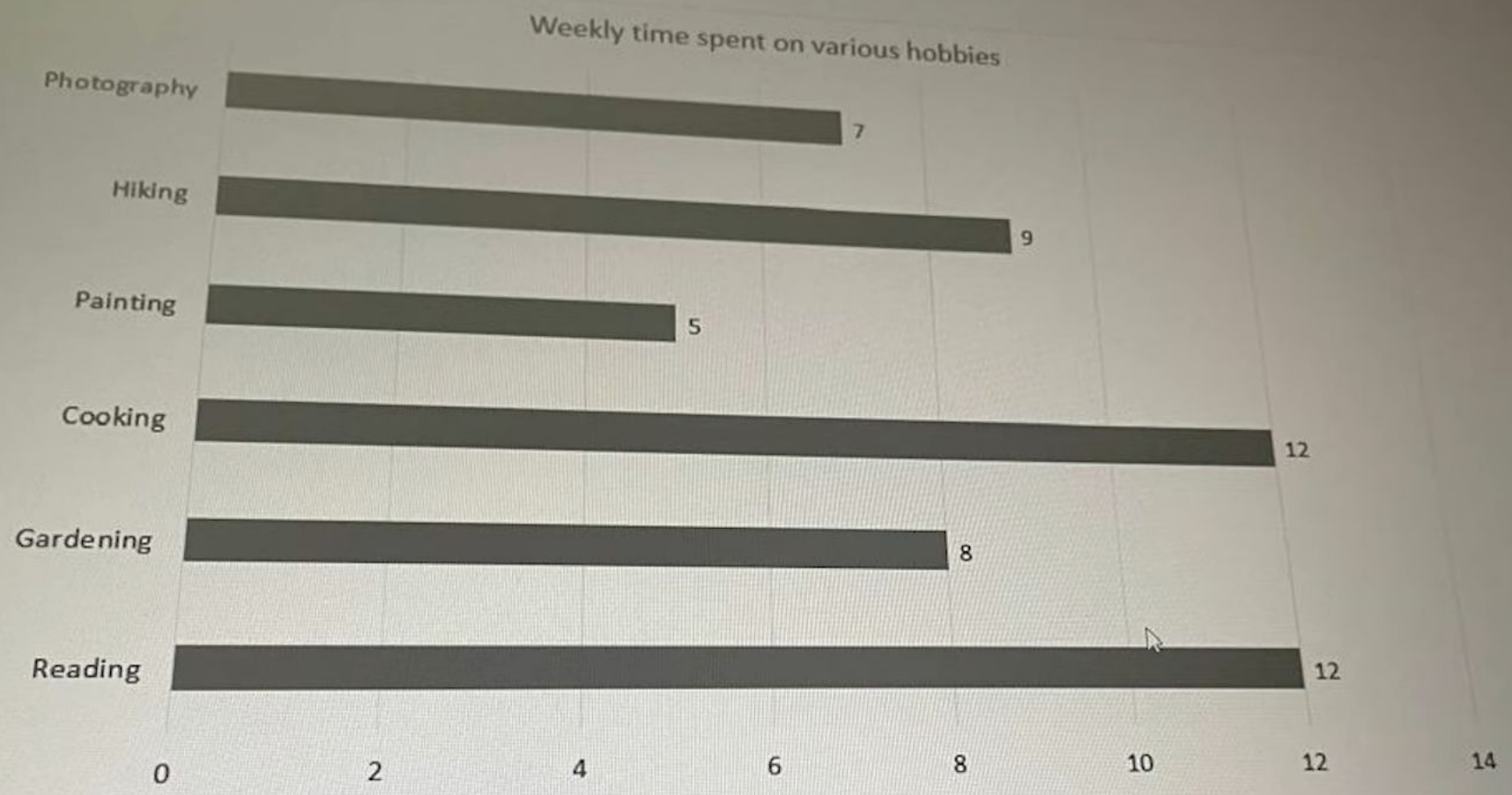
- Ops:
- A. Median: 6.5
 - B. Median: 8.5
 - C. Median: 10.5
 - D. Median: 4.5

Q 29. Ujjwal, Mridul and Rohit are working in a factory to prepare the order of utensils delivered to customer. Individually, they can complete the work in 90, 30 and 45 days respectively. In how many days they will complete the work if they work together?

- Ops:
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 - D. 25 days

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- Ops:
- A. Median: 6.5
 - B. Median: 8.5
 - C. Median: 10.5
 - D. Median: 4.5

- B. Median: 6.5
- C. Median: 10.5
- D. Median: 4.5

Q 29. Ujjwal, Mridul and Rohit are working in a factory to prepare the order of utensils delivered to customer. Individually, they can complete the work in 90, 30 and 45 days respectively. In how many days they will complete the work if they work together?

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 - C. 10 days
 - D. 25 days

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- Ops:
- A. 30 days, 20 days and 60 days
 - B. 20 days, 30 days and 60 days
 - C. 30 days, 20 days and 30 days
 - D. 20 days, 60 days and 30 days

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- B. USD 9000
- C. USD 14250
- D. USD 23250

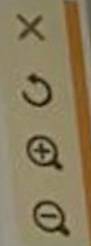
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Q 14. A number is chosen randomly from the given set of numbers - $(-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5)$. What is the probability that the absolute value of the chosen number is greater than 3?

- Ops:
- A. $8/11$
 - B. $7/11$
 - C. $3/11$
 - D. $4/11$

Q 15. A person travelled 1500 km by air which was $4/9$ th of the entire journey. He travelled the remaining distance either by train or by bus. If he travelled $1/3$ rd of the entire distance by train, then what is the distance he travelled by bus?

- Ops:
- A. 200 km
 - B. 750 km
 - C. 550 km
 - D. 600 km



Q 15. A person travelled 1500 km by air which was $\frac{4}{9}$ th of the entire journey. He travelled the remaining distance either by train or by bus. If he travelled $\frac{1}{3}$ rd of the entire distance by train, then what is the distance he travelled by bus?

- Ops: A. 200 km
B. 750 km
C. 550 km
D. 600 km

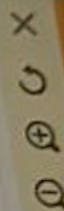
Q 16. Rajdhani express train travelling at a speed of 72 Km/hr crosses a platform in 27 seconds. What is the length of the platform if the length of the train is 185 m?

- Ops: A. 355 metres
B. 320 metres
C. 340 metres
D. 400 metres

Q 17. If the difference between the CI and SI at the end of 2 years is Rs. 108, then what is the principal amount if the rate of interest is 6% per annum?

- Ops: A. Rs. 30000
B. Rs. 21000
C. Rs. 18000
D. Rs. 23000

Q 18. R, G and B are brothers. R and G are twins. At present, the average age of R and G is $\frac{3}{4}$ of B's present age. Five years ago, The ratio of



- 320 metres
- C. 340 metres
- D. 400 metres

Q 17. If the difference between the CI and SI at the end of 2 years is Rs. 108, then what is the principal amount if the rate of interest is 6% per annum?

- Ops:
- A. Rs. 30000
 - B. Rs. 21000
 - C. Rs. 18000
 - D. Rs. 23000

Q 18. R, G and B are brothers. R and G are twins. At present, the average age of R and G is $\frac{3}{4}$ of B's present age. Five years ago, The ratio of age of G and B was 3 : 5. What will be R's age five years from now?

- Ops:
- A. 20 years
 - B. 15 years
 - C. 10 years
 - D. 5 years

Q 19. Read the information and answer the following questions:

The following bar graph shows the number of mobile phones sold online from March to July in year 2018.

Number of mobile phones sold online

D. \$545,000

Reset

Q 07. If one-sixth of a number is subtracted from one-fifth of a number, the result is 7. What is the number?

Ops: A. 280

B. 105

C. 350

D. 210

Q 08. Sally is travelling from Kanyakumari to Mumbai which was 480 km apart. He covered 66.67% of the distance at 72 remaining by reducing the speed by 30%. What is the total time of the journey?

Ops: A. 7 hours 20 minutes

B. 7 hours 37 minutes

C. 7 hours 12 minutes

D. 7 hours

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B. 105
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- Ops: A. 7 hours 20 minutes
B. 7 hours 37 minutes
C. 7 hours 12 minutes
D. 7 hours

Q 09. Pankaj and Qureshi entered into a clothing business with capitals Rs. 75000 and Rs. 105000 respectively. After three months, both have invested Rs. 25000 more. What is the difference between their shares if the year end profit is of Rs. 58000?

- Ops: A. Rs. 5000
B. Rs. 10500
C. Rs. 8000
D. Rs. 2000

Q 10. A sum of Rs. 53000 is divided in two parts. One part is invested at 10% per annum for 2 years and other at 20% for same time. If the interests is compounded annually for both parts and both the part amounts to the same value after two years, find the smaller part.

Reset

Q 02. 18.5% more is gained by selling a bed mattress for Rs. 25700 than by selling it at Rs. 20350. What is the cost price of the mattress at which shopkeeper purchased them?

- Ops:
- A. Rs. 28000
 - B. Rs. 28918
 - C. Rs. 29564
 - D. Rs. 31720

Q 03. The ratio of prices of two stock A and B is 3 : 5. If the percentage increase in stock A and decrease in stock B is 25% and 25% respectively, determine the new ratio ?

- Ops:
- A. 5 : 3
 - B. 9 : 5
 - C. 5 : 9
 - D. 1 : 1

C. 50 daysD. 28.8 days

Q 23. A speed boat takes 6 hours and 9 hours to travel 54 km in downstream and upstream respectively. What is the speed of the river?

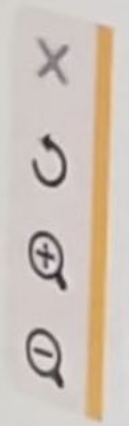
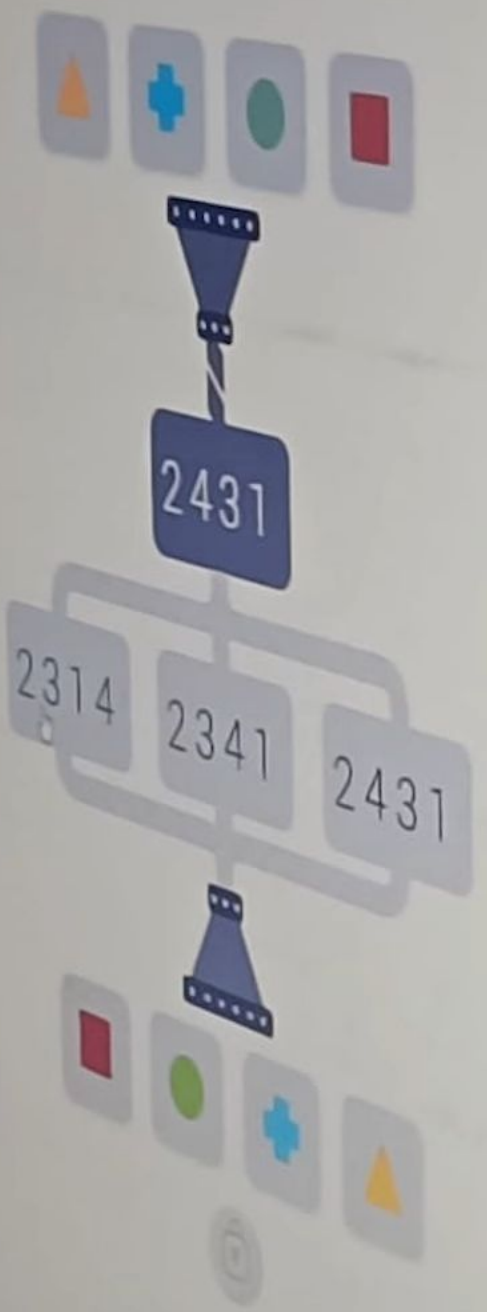
Ops: A. 3.5 km/hrB. 3 km/hrC. 2 km/hrD. 1.5 km/hr

Q 24. In an equilateral triangle XYZ, J, K, and L are the mid points of XY, XZ, and YZ respectively. The area of triangle JKL is 12.13 cm square. What is the area of equilateral triangle XYZ?

Ops: A. 24.26 cm squareB. 3.03 cm squareC. 48 cm squareD. 48.52 cm square

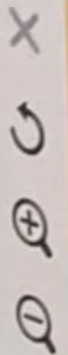
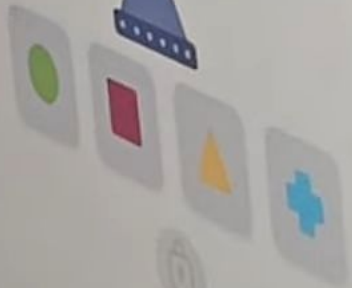
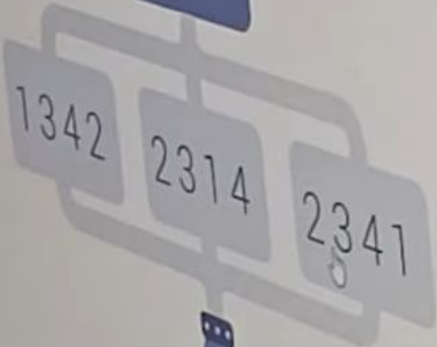
Q 25. Anand bought two mobiles at the same price. He sold one of them at 20% profit and sold the other at 10% loss. Find the overall profit percentage made by Anand?

Ops: A. 5%B. 15%C. 10%D. 7.5%





1342



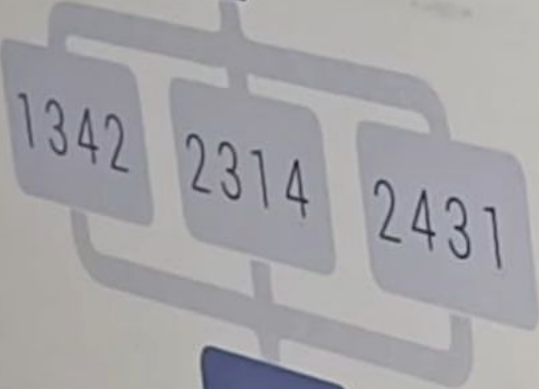
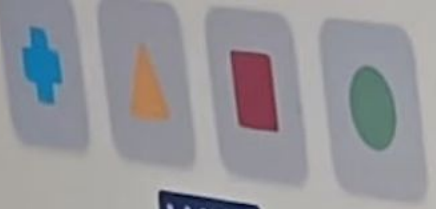


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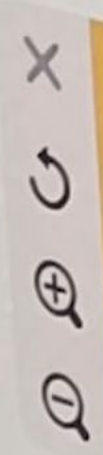
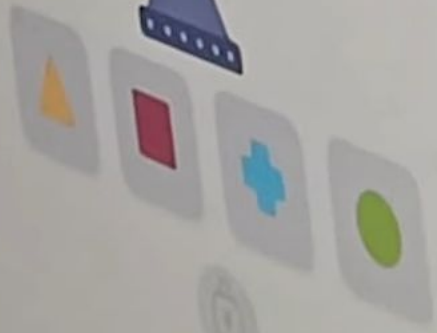
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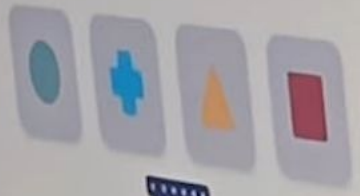
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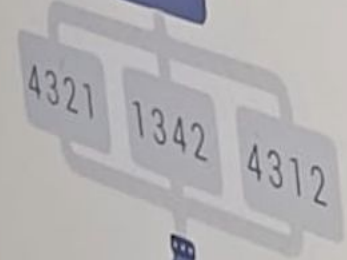
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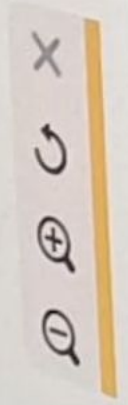
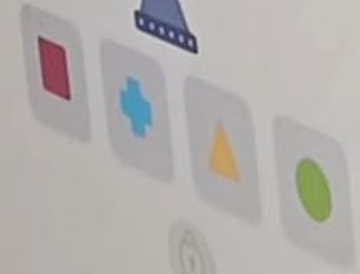


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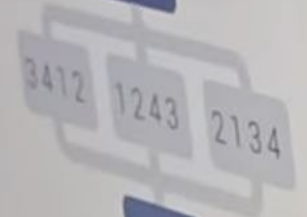


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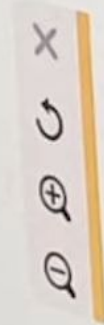
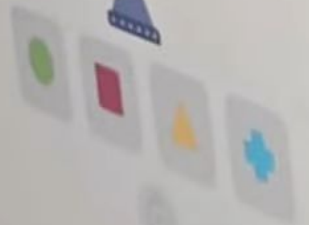


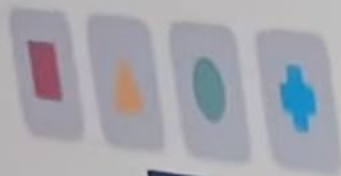


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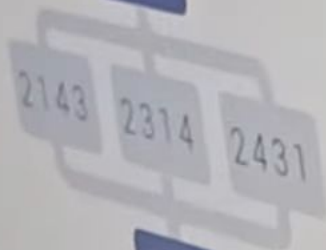


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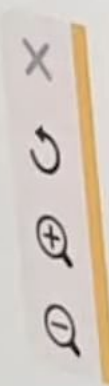
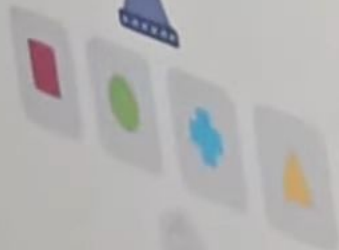


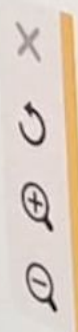
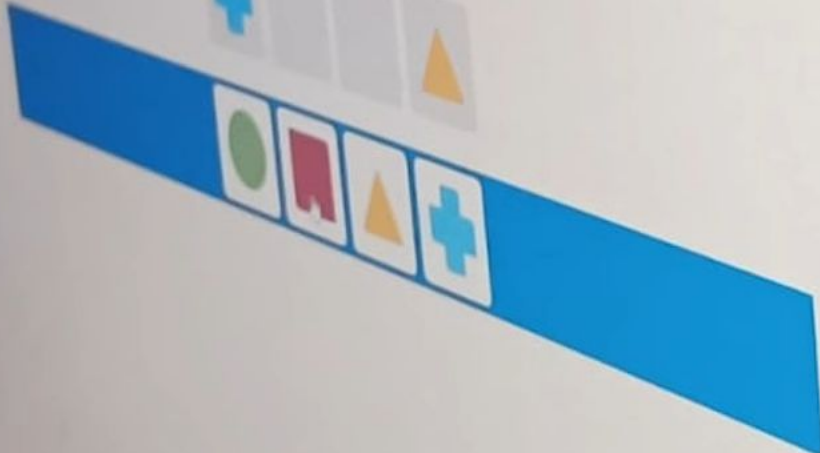


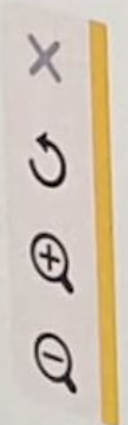
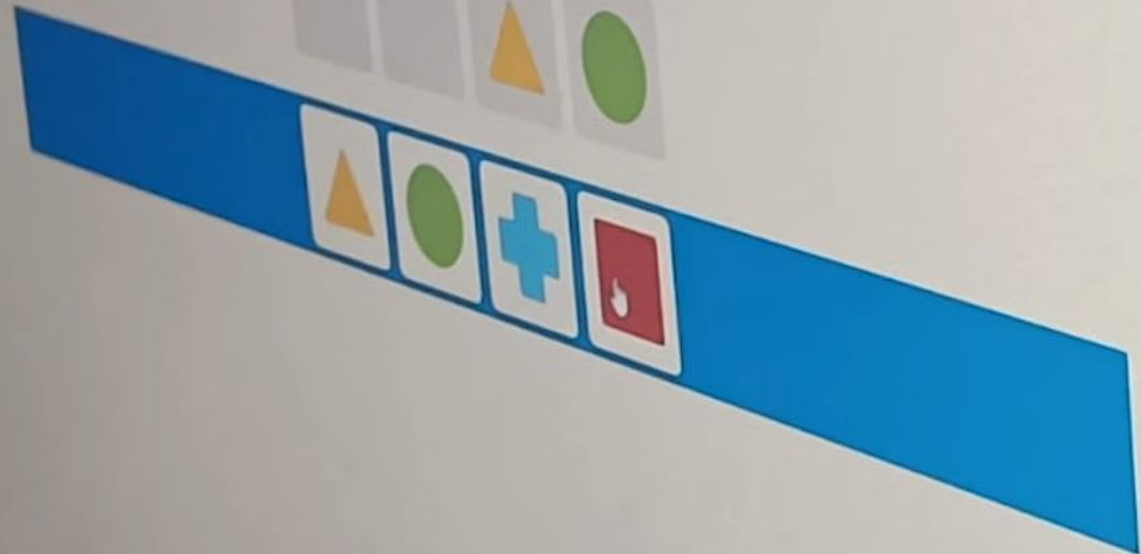
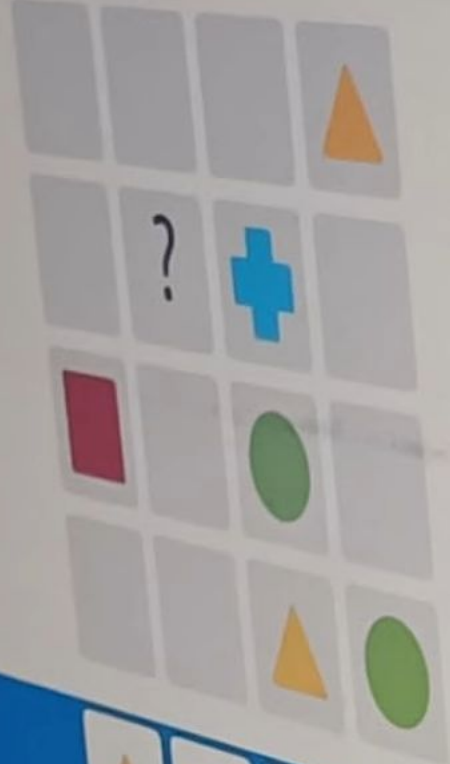
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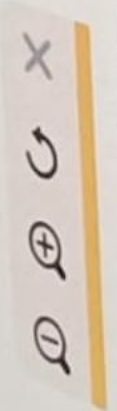
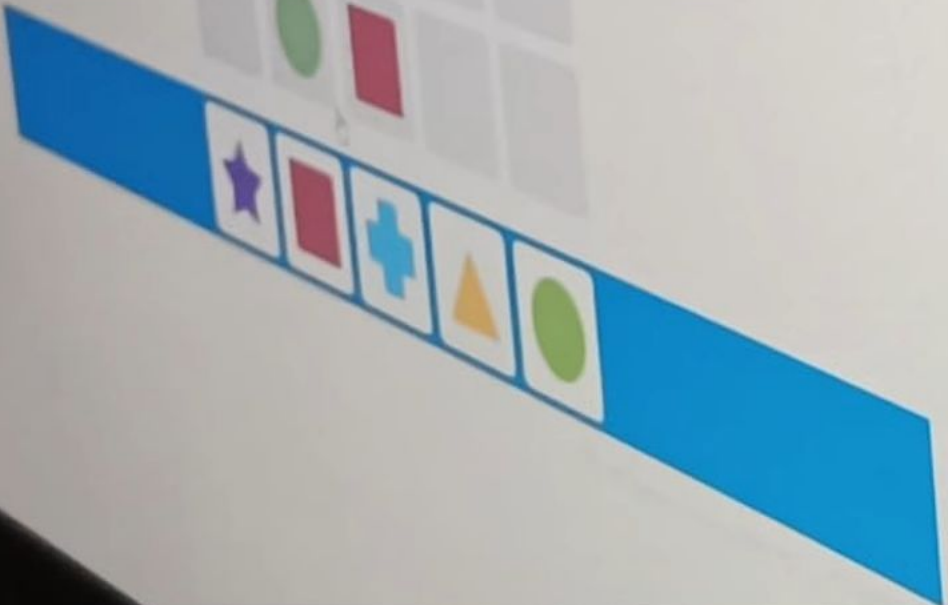
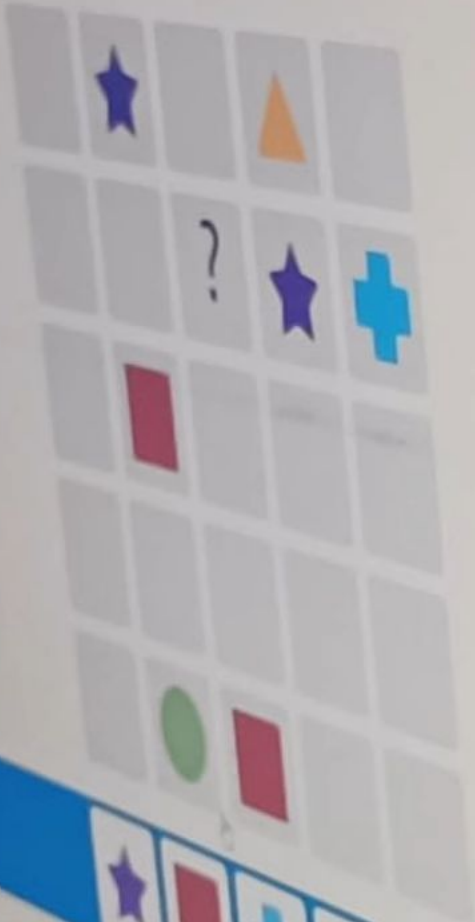


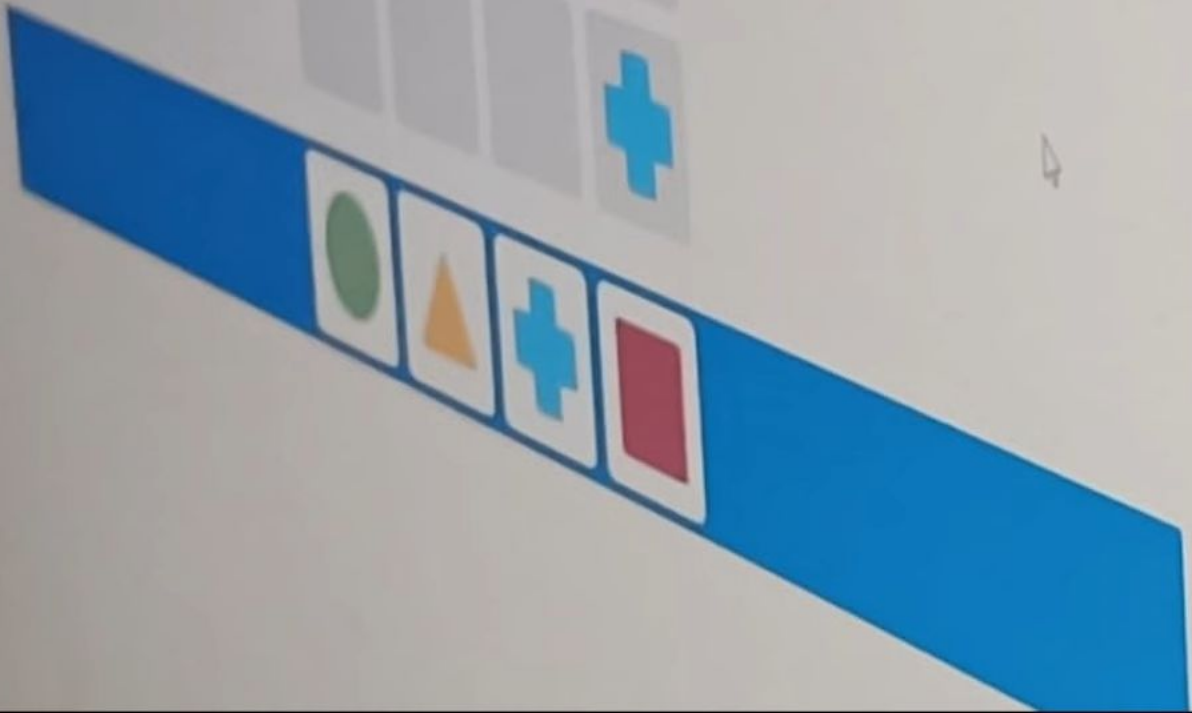
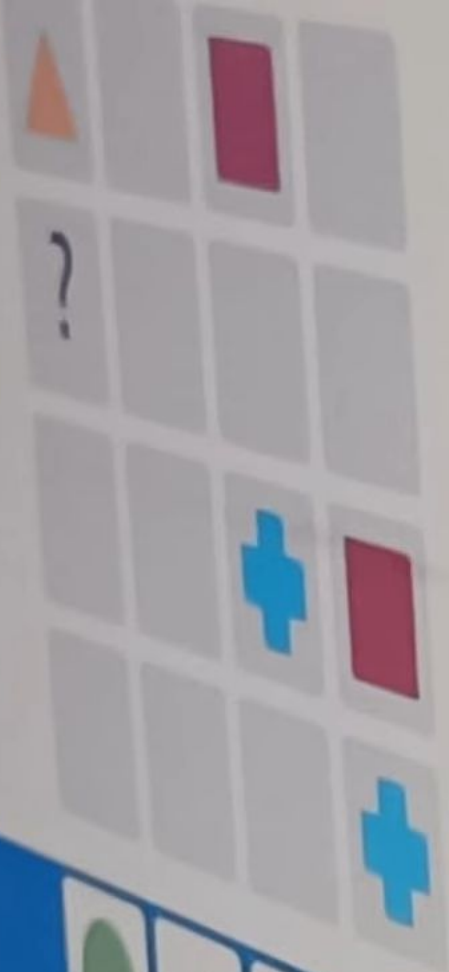
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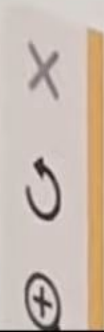
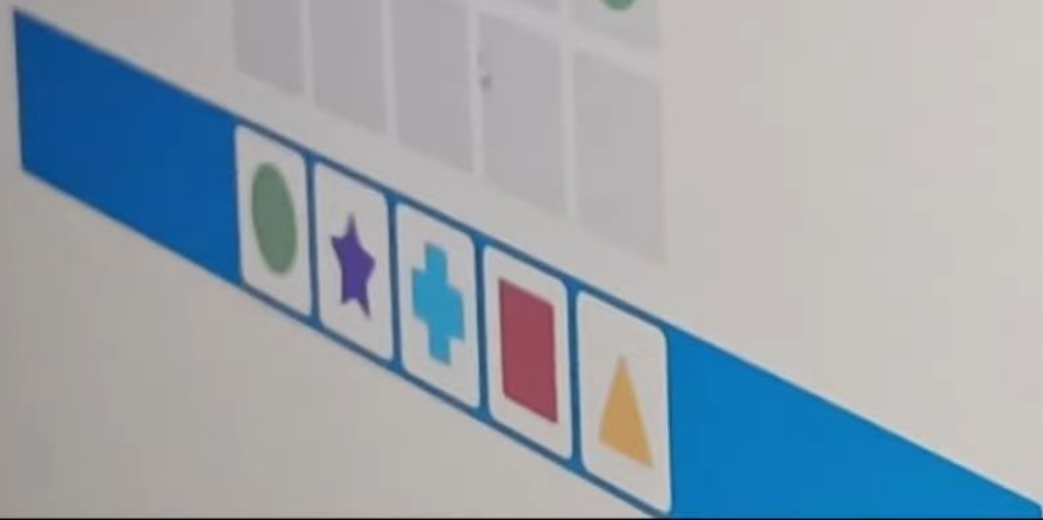
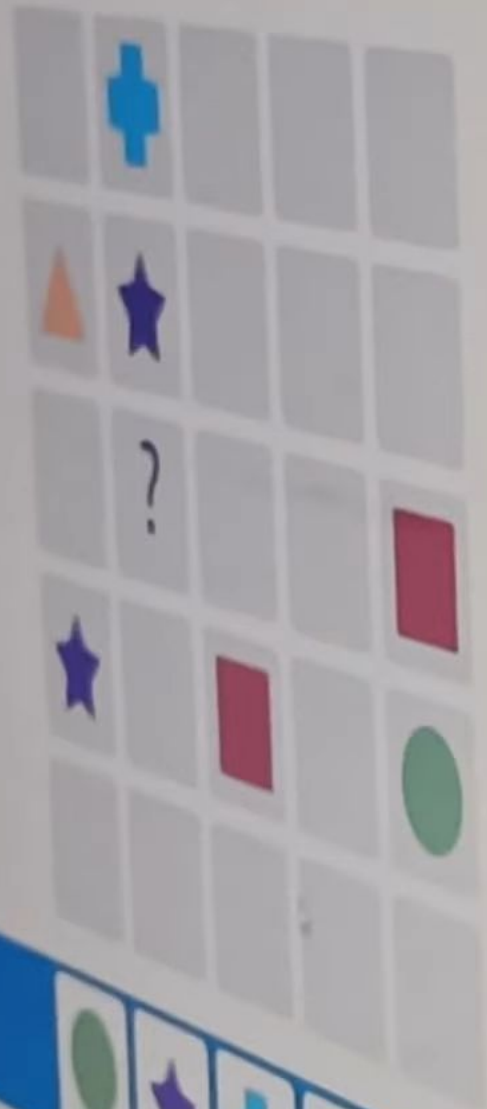




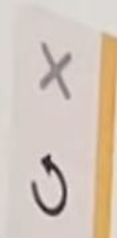
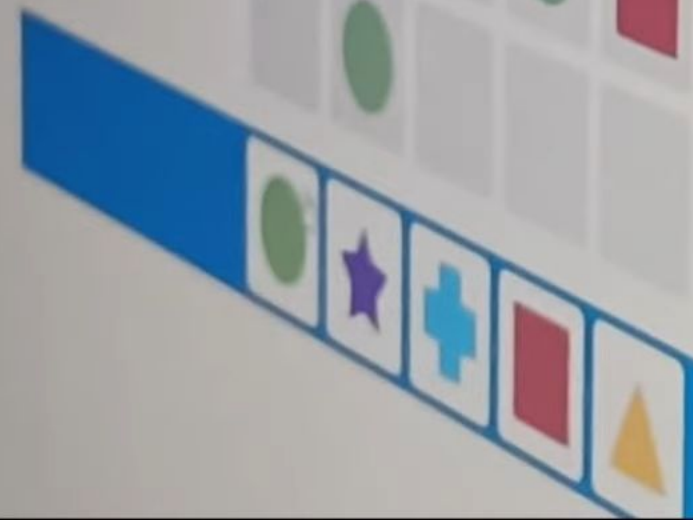
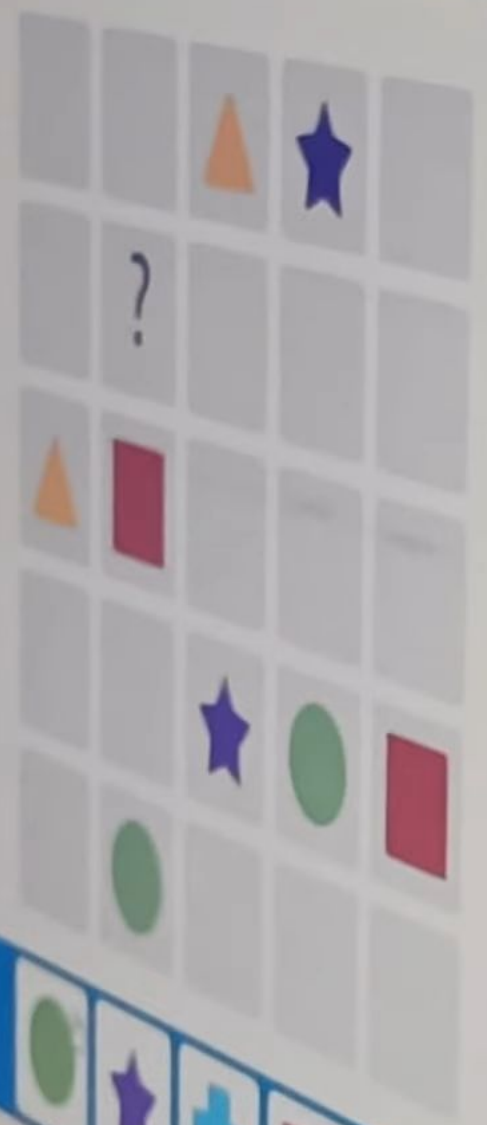
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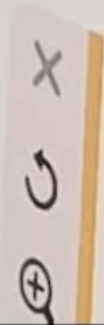
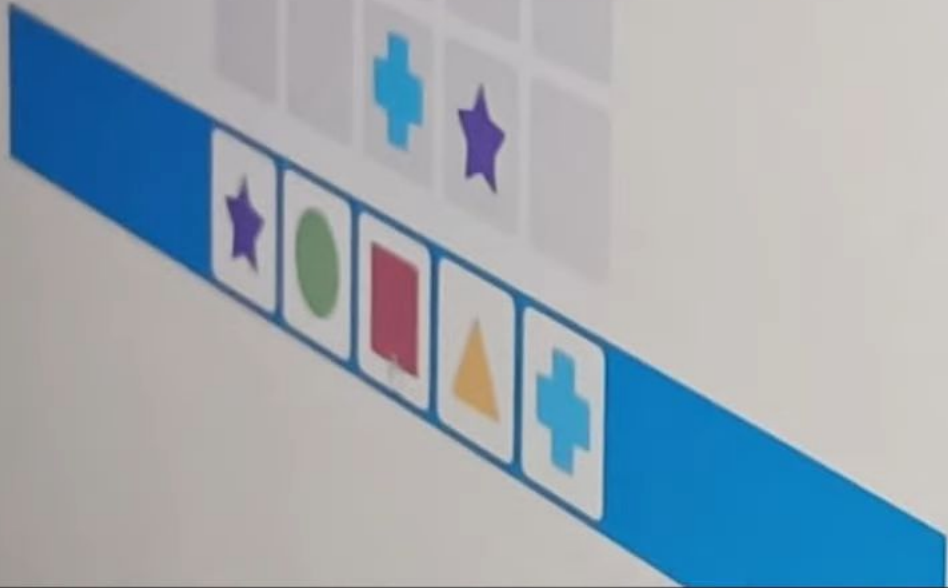
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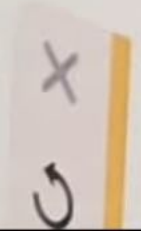
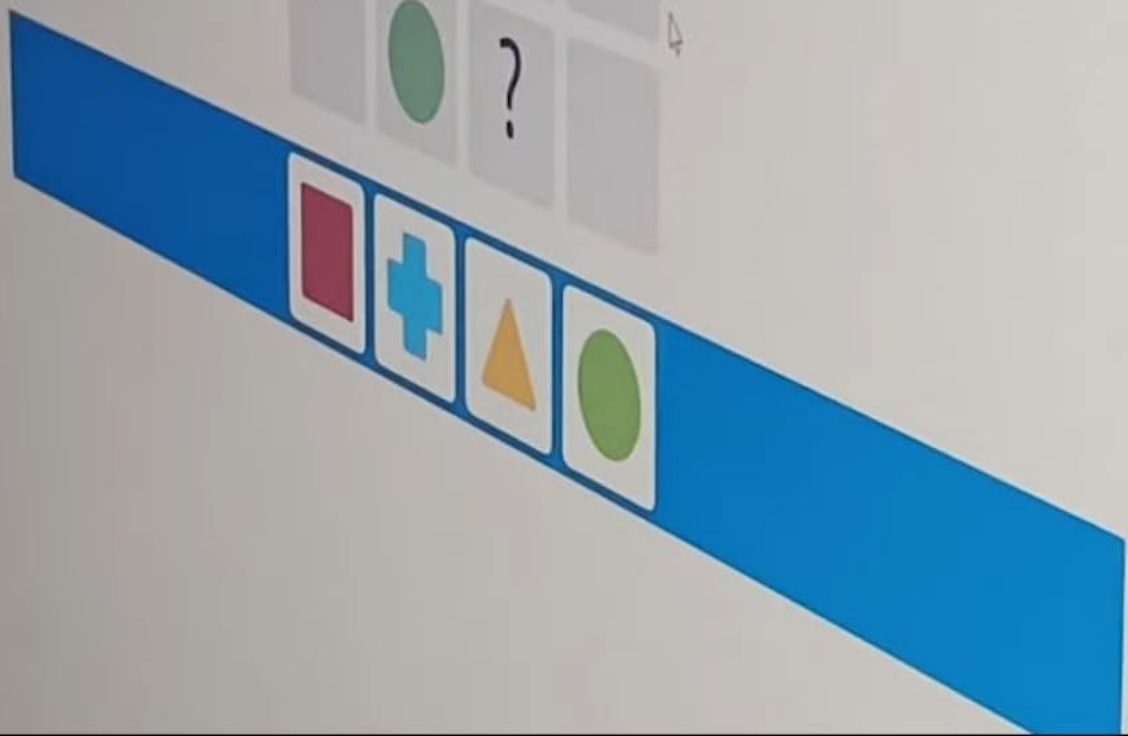
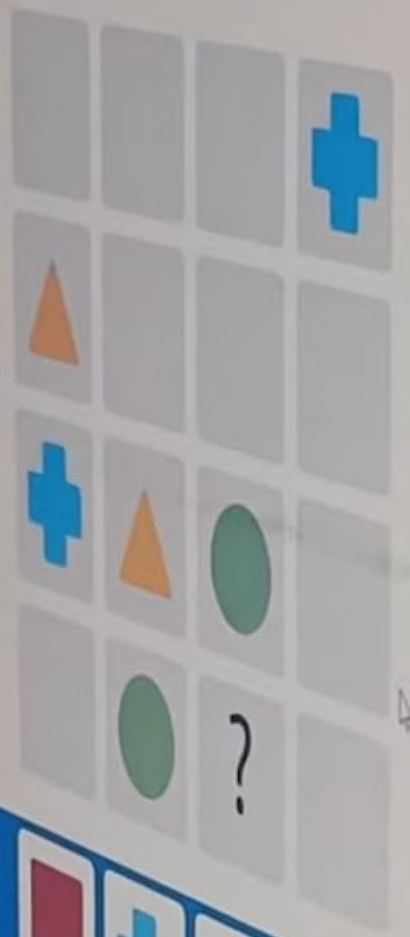
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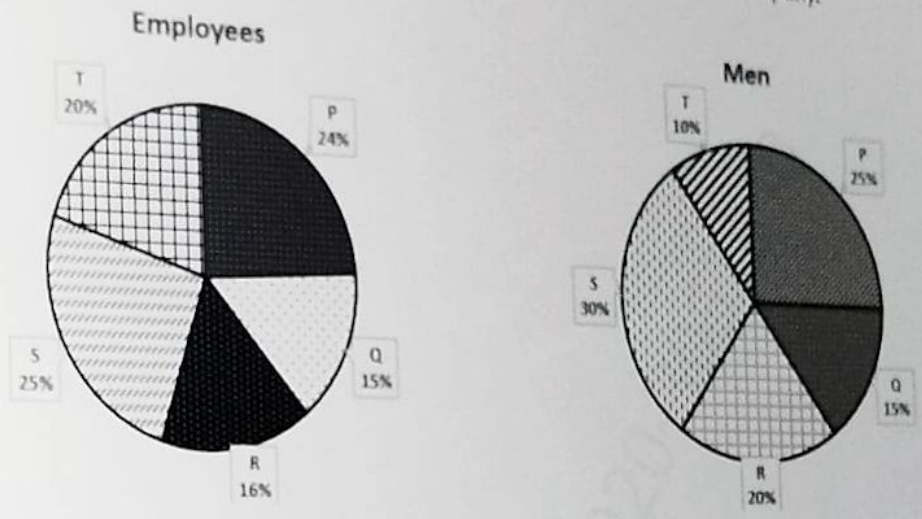






01. Quant Assessment

Q 01. The first pie-chart represents the percentage break-up of employees in all the five departments of a company, and the second pie-chart represents the department-wise breakup of the total male employees in the company.



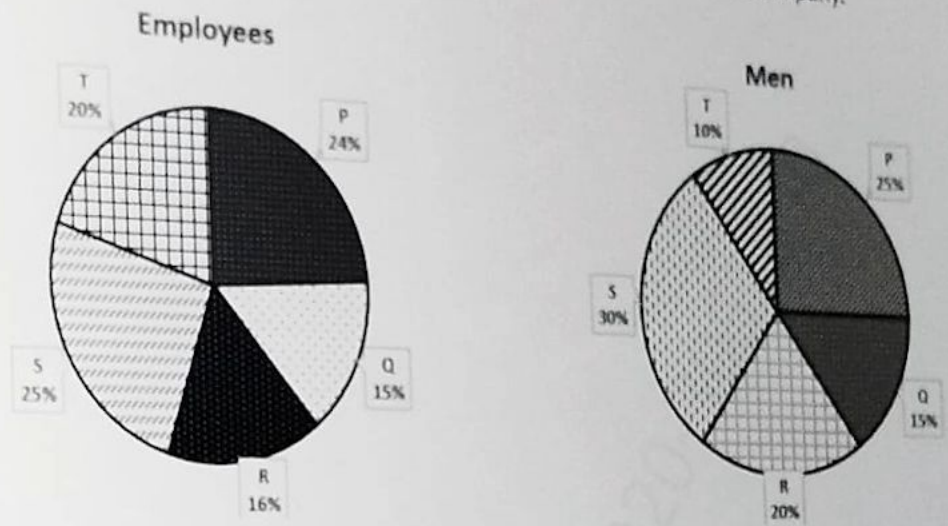
If the number of men in department P is equal to number of women in department Q, then find the ratio of number of men in department R with respect to number of women in department T?

- Ops:
- A. 6 : 11
 - B. 9 : 13
 - C. 6 : 13
 - D. 12 : 11

Q 02. Benedict's salary before he got an increment was 17.5% of the total income of his friend. His increment was one-third of his salary before the increment. What percentage of the total income of his friend is his new salary?
(Note: There was no increment in the salary of his friend)

01. Quant Assessment

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... was no increment in the salary of his friend)
... income of his friend is his new salary?
... his friend. His increment was one-third of his salary before

- Ops:
- A. None of the mentioned options
 - B. 23.33%
 - C. 27.57%
 - D. 15.33%
 - E. 22.25%

Reset

Q 03. There are 18 points on a plane surface such that no three points are in a line. How many distinct triangle can be formed by joining these points?

- Ops:
- A. 816
 - B. 2448
 - C. 1224
 - D. 408

Q 04. A man drives a car for 3 minutes and covers a distance of 3.05 km. If for each minute, the distance covered is 25% more than the distance covered in the previous minute, then find the distance covered in the first minute.

- Ops:
- A. 750 m
 - B. 800 m
 - C. 900 m
 - D. 720 m

Q 05. The scores of Mimi and Lucy in a class test are in the ratio 11 : 13. If their total score is 480, find Mimi's score.

- Ops: A. 260
B. 165
C. 220
D. 195

Q 06. There are three natural numbers. The first and second are more than the third by 28% and 32% respectively. What percentage of the first number is the second number?

- Ops: A. 103.03%
B. 101.56%
C. 103.12%
D. 106.25%

Q 07. An integer n is chosen at random from a set of two digit positive integers. What is the probability that $(n - 2)(n + 2)$ is divisible by 8?

- Ops: A. 67/90
B. 17/30
C. 23/90
D. 19/30

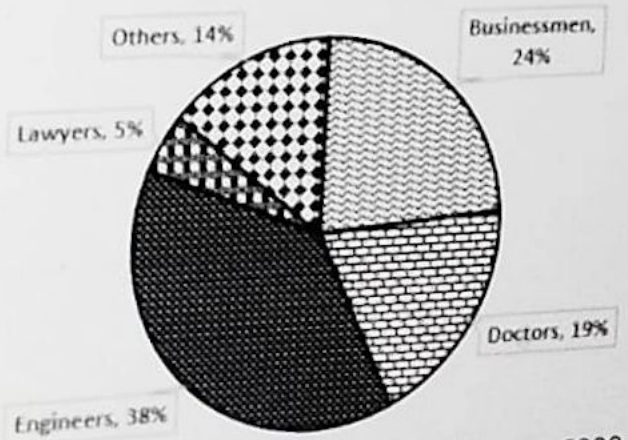
Q 08. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 31: 29
 - B. 19 : 17
 - C. 29 : 31
 - D. 17 : 19

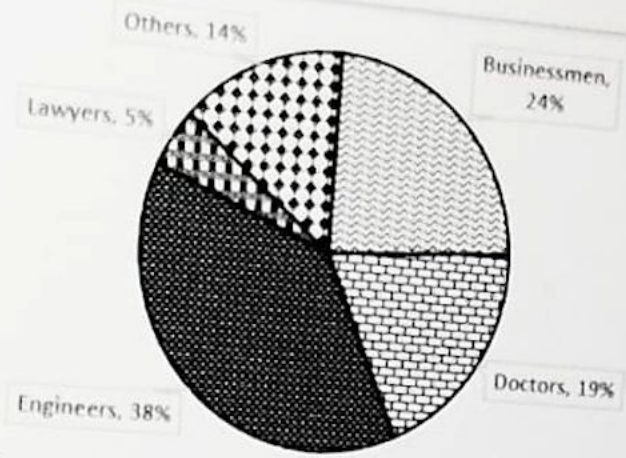
Q 09. The given pie chart represents the break up of working men in a colony.

Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000



Total number of working men in the colony = 6000

How many of the working men are engineers or doctors?

- Ops:
- A. 1140
 - B. 3420
 - C. 2280
 - D. 2420

Q 10. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

- Ops:
- A. 15.33
 - B. 13.75
 - C. 11.67
 - D. 12.25

Q 11. In a triangle ABC, AP, BQ and CR bisect BC, AC and AB at P, Q and R respectively. AP, BQ and CR intersect each other at point O. If area of triangle AOQ is 17 cm^2 then, find the area of triangle ABC.

- Ops: A. 51 cm^2
B. 153 cm^2
C. 136 cm^2
D. 102 cm^2

Q 12. There are five dogs, seven cats and six horses in a group of animals. Parker randomly selects two animals from the group. What is the probability that both are dogs or cats or horses?

- Ops: A. $54/153$
B. $61/153$
C. $38/153$
D. $46/153$

ment, are to share their four-days tour expenses such that Andy's share is four-
Andy pays the bill which amounts to 6000

Q 13. Three persons Andy, Bruce and Charles, as per their agreement, are to share their four-days tour expenses such that Andy's share is four-fifth of Bruce's share and Charles's share is 40% more than Bruce's share. On the first day, Andy pays the bill which amounts to \$800. The second day's bill accounting to \$600 was cleared by Bruce, while Charles clears the last two day's bill of \$1000. During the final settlement of their expenses, how much amount does Charles need to pay to Andy?

- Ops:
- A. \$75
 - B. \$50
 - C. \$100
 - D. \$150

Q 14. Lin can complete a task in x days, Josh can complete it in 18 days. Christian can complete the same task in 24 days. Christian started the task. After 3 days, Lin and Josh joined. If the task is completed in 4 more days, then find the value of x .

- Ops:
- A. $212/33$
 - B. $212/35$
 - C. $288/35$
 - D. $202/35$

Q 15. Bonny gained 20% by selling a novel at \$120. Find the price at which she purchased the novel.

- Ops:
- A. \$140
 - B. \$120
 - C. \$100
 - D. \$155

Q 16. Billiard, a con-man, was running along a road at 12 km/hr. He crossed a policeman moving at a speed of 15 km/hr in the opposite direction. The policeman had to continue for 8 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the policeman to catch the con-man from the time he crossed him?

- Ops: A. 27
 B. 90
 C. 80
 D. 72

Q 17. Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 30,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.

- Ops: A. 3000000
 B. 1000000
 C. 300000
 D. 30000000

Q 18. John reaches his destination which is 24 km away, 30 minutes late, if he travels at 8 km/hr. What should his speed be if he wishes to reach 30 minutes early of the right time?

- Ops: A. 8 km/hr
 B. 10 km/hr
 C. 12 km/hr
 D. 6 km/hr

themselves in the ratio of 4 : 5 : 11. Their rates of work are in the ratio 2 : 3 : 5. It takes

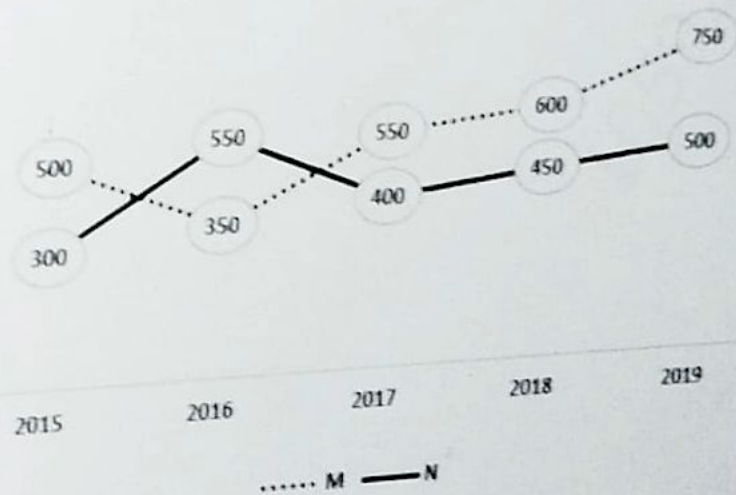


Q 19. Lara, Jerry and Bruce divide a work amongst themselves in the ratio of 4 : 5 : 11. Their rates of work are in the ratio 2 : 3 : 5. It takes Lara 16 days to complete his part. What is the amount of work completed by them in 10 days from the start?

- Ops: A. 31/60
 B. 31/40
 C. 31/80
 D. 31/120

Q 20. The following line graph gives the number of computer peripherals (in millions) exported by two countries M and N from 2015 to 2019. Study the graph carefully and answer the questions that follow.

Number of computer peripherals (in millions) exported by two countries M and N across five years



What is the ratio of the number of computer peripherals exported by country M and country N together in 2015 to that exported by both countries together in 2017?



What is the ratio of the number of computer peripherals exported by country M and country N together in 2015 to that exported by both countries together in 2017?

- Ops:
- A. 16 : 19
 - B. 27 : 31
 - C. 18 : 23
 - D. 17 : 19

Q 21. Five years ago, Pam's age was three times Sarah's age. Five years hence, Pam's age will be twice Sarah's age. After how many years from now will their combined age be 78 years?

- Ops:
- A. 13
 - B. 12
 - C. 14
 - D. 15

Q 22. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT'?

- Ops:
- A. 6317
 - B. 6487
 - C. 6497
 - D. None of the mentioned options



Q 23. In a certain district, the number of people who finished high school and to the people who finished only elementary school were in the ratio 2 : 1. After 3 years 50 more people finished high school and 200 more people finished elementary school and ratio changed to 3 : 4. What will be the difference in the number of people who finished high school and the ones who finished elementary school?

- Ops: A. 80
B. 60
C. 100
D. 40

Q 24. A dishonest salesman at a plant seed shop promises to sell his goods at cost price for the international environment day but he uses false weights with which he cheats by 12% while buying and by 12% while selling. What is his percentage profit?

- Ops: A. 0.3131
B. 0.25
C. 0.2727
D. 0.241

Q 25. If $f(m) = m^3 - 4m + 8$, then find the remainder when $f(m)$ is divided by $m - 2$.

- Ops: A. 6
B. 16
C. 12
D. 8

and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the

P and Q appeared in an exam. Sum of P's score and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the ratio of score obtained by P and Q.

- Ops: A. 13 : 11
B. 11 : 13
C. 12 : 11
D. 13 : 12

Q 27. Vinay borrowed ₹32,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

- Ops: A. ₹45,254
B. ₹50,578
C. ₹42,592
D. ₹47,916

Q 28. Marco invested in two schemes - \$12,000 in Scheme A for one year at a simple annual rate of 6% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 10% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops: A. \$1338
B. \$2098
C. \$1746
D. \$2297

Q 28. Marco invested in two schemes - \$12,000 in Scheme A for one year at a simple annual rate of 6% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 10% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops: A. \$1338
B. \$2098
C. \$1746
D. \$2297

Q 29. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops: A. 191/52
B. -9/22
C. 11/26
D. -13/22

Q 30. In a company Rely United Pvt. Ltd., 25% of total women are more than 29 years old and 80% of the total women are less than or equal to 60 years old. 30% of all women play volleyball. If 10% of the women below or equal to 29 years play volleyball, what percentage of the volleyball players are less than or equal to 29 years?

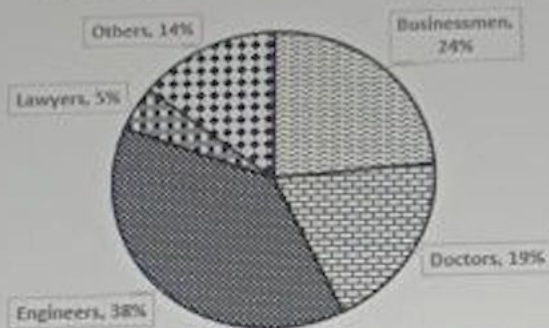
- Ops: A. 0.2824
B. 0.25
C. 0.1735
D. 0.1667



Q 03. The given pie chart represents the break up of working men in a colony.

Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000

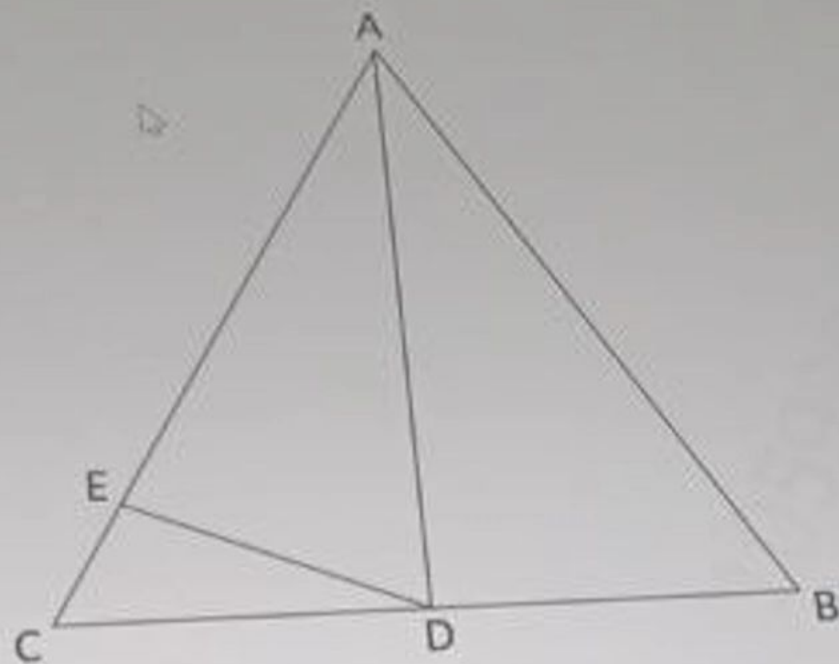
How many of the working men are engineers or doctors?

- Ops:
- A. 1140
 - B. 3420
 - C. 2280
 - D. 2420

Q 04. Five years ago, Pam's age was three times Sarah's age. Five years hence, Pam's age will be twice Sarah's age. Now will their combined age be 74 years?

- Ops:
- A. 14
 - B. 12
 - C. 15
 - D. 13

- Q 08. In triangle ABC, AD intersect CB at point D such that $CD : DB = 2 : 5$ and DE intersect AC at point E such that $AE : EC = 7 : 3$. What is the area of triangle ADB if area of triangle DEC is 36 cm^2 ?



- Ops:
- A. 180 cm^2
 - B. 240 cm^2
 - C. 300 cm^2
 - D. 120 cm^2

Q 22. A man drives a car for 3 minutes and covers a distance of 3.05 km. If for each minute, the distance covered is 25% more than the distance covered in the previous minute, then find the distance covered in the first minute.

- Ops: A. 750 m
B. 720 m
C. 900 m
D. 800 m

Q 23. Jamie has an unbiased coin and he tosses the coin 10 times. What is the probability that he would get more heads than tails?

- Ops: A. $111/1024$
B. $193/512$
C. $187/512$
D. $193/1024$

Q 24. There are 15 points on a plane, seven of them are on a line. How many different triangles can be formed after joining these points?

- Ops: A. 210
B. 420
C. 680
D. 240

Total number of working men in the colony = 6000

How many of the working men are engineers or doctors?

- Ops: A. 2280
B. 1140
C. 3420
D. 2420

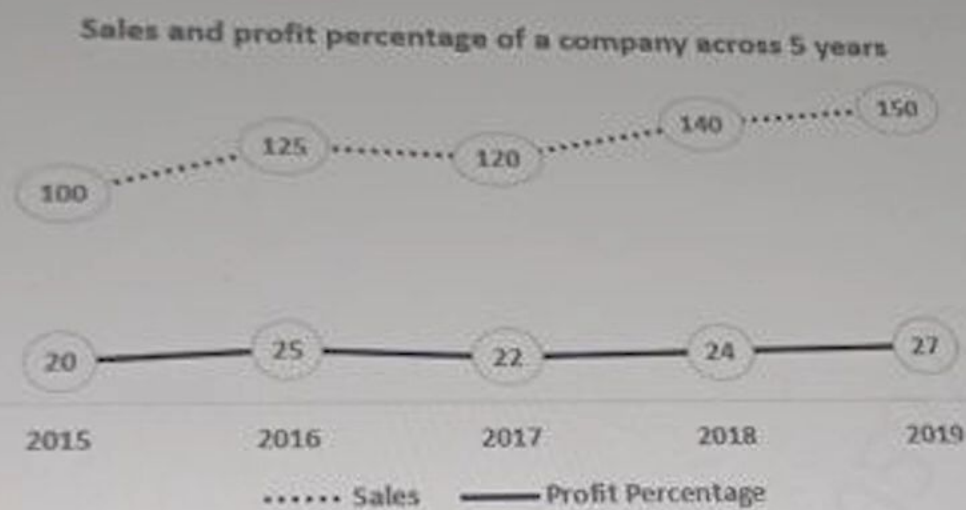
Q 20. John reaches his destination which is 24 km away, 30 minutes late, if he travels at 8 km/hr. What should his speed be if he wishes to reach 30 minutes early of the right time?

- Ops: A. 12 km/hr
B. 10 km/hr
C. 6 km/hr
D. 8 km/hr

Q 21. Jonathon travelled from Mumbai to Delhi at a certain constant speed and returned at a certain constant speed. His average speed for the entire trip was the average of his onward and return speeds. He travelled a total distance of x km in 12 hours. If his return speed is 120 kmph, then find the value of x .

- Ops: A. 1500
B. 1600
C. 1440
D. 1560

- Q 17. The following line graph gives the sales and profit percentage of a company across five years from 2015. The value of sales in 2015 have been taken as 100. All values in the succeeding years are indexed to the value in 2015. Study the graph carefully and answer the questions that follow.



$$\text{Profit percentage} = (\text{Profit/Expenses}) * 100$$

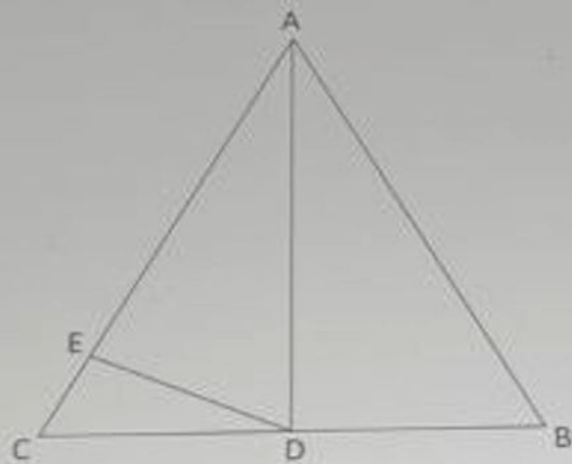
$$\text{Sales} = \text{Expenses} + \text{profit}$$

What was the percentage increase in expenses from 2016 to 2018?

- Ops:
- A. 0.129
 - B. 0.0864
 - C. 0.0425
 - D. 0.0164

interest compounded annually. Find the amount that he has to pay to the

- Q 08. In triangle ABC, AD intersect CB at point D such that $CD : DB = 2 : 5$ and DE intersect AC at point E such that $AE : EC = 7 : 3$. What is the area of triangle ADB if area of triangle DEC is 36 cm^2 ?



- Ops: A. 180 cm^2
B. 240 cm^2
C. 300 cm^2
D. 120 cm^2

- Q 09. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops: A. -2
B. 0
C. 2
D. 1

Reset

- Q 17. The following line graph gives the sales and profit percentage of a company across five years from 2015. The value of sales in 2015 have been taken as 100. All values in the succeeding years are indexed to the value in 2015. Study the graph carefully and answer the questions that follow.



$$\text{Profit percentage} = (\text{Profit}/\text{Expenses}) * 100$$

$$\text{Sales} = \text{Expenses} + \text{profit}$$

What was the percentage increase in expenses from 2016 to 2018?

- Ops: A. 0.129
B. 0.0864
C. 0.0425
D. 0.0164

- Q 18. Vinay borrowed ₹32,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

- Ops: A. ₹47,916
B. ₹42,592
C. ₹50,578
D. ₹45,254

Reset

- B. 2/5
- C. 5/12
- D. 7/12

Q 12. Cerra bought 2 premium skateboards for \$2500. If she sells 1 skateboard at a profit of 10% then how much percent of profit should she sell the other for, so that she makes a profit of 20% on the whole?

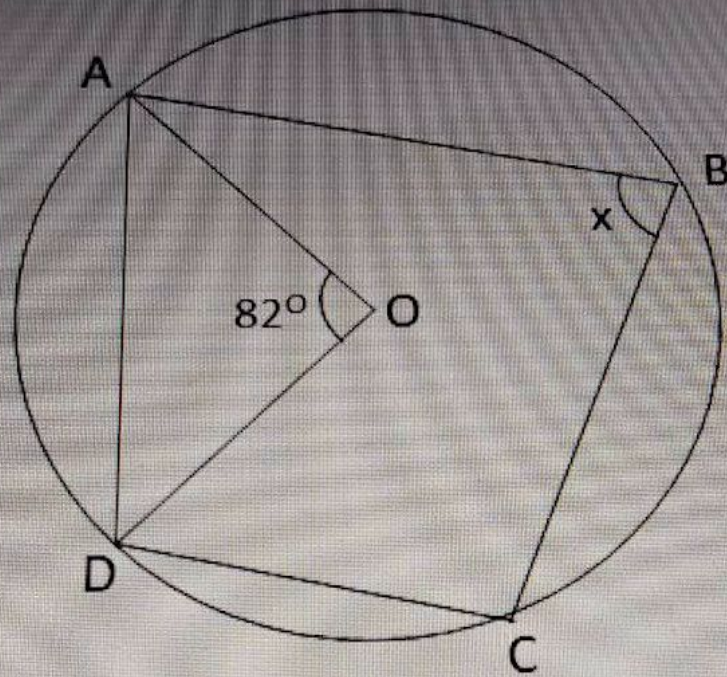
- Ops:
- A. 0.3
 - B. 0.1
 - C. 0.15
 - D. 0.35

Q 13. In a certain month, the total income of Andrew, Bruce and Chloe is \$500,000. In that month, Andrew spends 70% of his income, Bruce spends 75% of his income and Chloe spends 80% of her income. The ratio of the amounts spent by Andrew, Bruce and Chloe in that month is 35 : 90 : 64. Find the income of Bruce in the month.

- Ops:
- A. \$10,000
 - B. \$16,000
 - C. \$24,000
 - D. \$18,000

Q 14. In the following figure, $GE \parallel BC$, $AB \parallel CD \parallel EF$. Find the value of x .

Q 28. In the following figure, O is the centre of circle and $\angle ODC = 24^\circ$. Find the value of x .



- Ops:
- A. 58°
 - B. 98°
 - C. 73°
 - D. 122°

Germany
15%

France
20%

France
10%

Japan
20%

Priyadarshini B
Candidate ID: 44201439

20 : 56

Note: The college wise breakup of students according to their nationalities applies uniformly for individual departments also.

What is the difference between the number of students from Russia in colleges Q and U?

- Ops:
- A. 43
 - B. 55
 - C. 46
 - D. 52

Q 07. Total number of students in class is 72. Which of the following can be the ratio of the number of girls and boys in the class?

- Ops:
- A. 11 : 12
 - B. 12 : 15
 - C. 9 : 8
 - D. 7 : 5

Q 08. Leonard is thrice as efficient as Jamey and is therefore able to finish a work in 32 days less than Jamey. Find the number of days taken by them to complete 65% of the work by working together.

- C. 18.83%
D. 22.36%

Q 09. In how many years would an amount \$525 become \$651 under a simple interest rate of 8% per annum?

- Ops:** A. 3
B. 4
C. 6
D. 2

Q 10. There are four men, five women and two boys in a group. All of them are seated in a row, what is the probability that all women together and both boys sit at last position of row?

- Ops:** A. $1/693$
B. $1/1386$
C. $2/693$
D. $5/1386$

Q 11. The income tax rate is reduced from 30% to 22.5%. The tax to be paid by Marco would reduce by _____ if his tax is \$27,000.

D. 72

Q 06. Garcia sold his bike at 14% profit. Had he charged \$120 more, his profit would have been 17%. What is the cost price of the bike?

- Ops:**
- A. \$5000
 - B. \$4000
 - C. \$4500
 - D. \$3600

Q 07. Judith buys a bag for \$125 and sells it at a loss of 24%. What is the selling price of the bag?

- Ops:**
- A. \$119
 - B. \$104
 - C. \$95
 - D. \$87

Q 08. In 2020, the transportation cost of a bike was 25% of its manufacturing cost. From 2020 to 2021, its manufacturing cost increased by 25%. Its transportation cost in 2021 was 40% of manufacturing cost in that year. By what percent should the transportation cost be reduced in 2021?

- B. \$4000
- C. \$4500
- D. \$3600

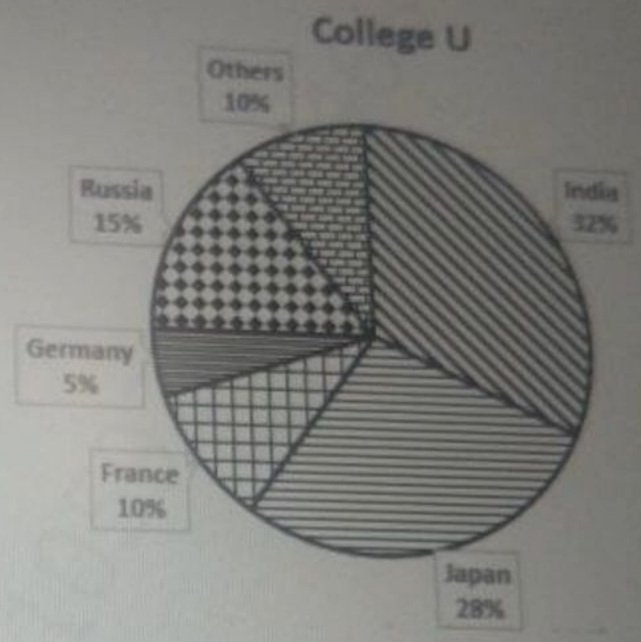
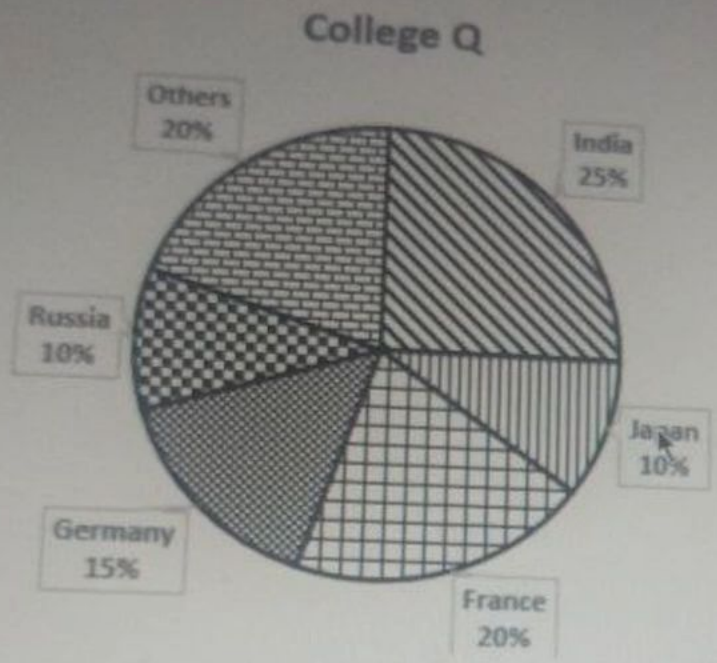
Q 07. Judith buys a bag for \$125 and sells it at a loss of 24%. What is the selling price of the bag?

- Ops:**
- A. \$119
 - B. \$104
 - C. \$95
 - D. \$87

Q 08. In 2020, the transportation cost of a bike was 25% of its manufacturing cost. From 2020 to 2021, its manufacturing cost went up 25%. Its transportation cost in 2021 was 40% of manufacturing cost in that year. By what percent should the total cost in 2021 be reduced to bring it back to that in 2020?

[Note: Total cost = Manufacturing cost + Transportation cost]

- Ops:**
- A. 19.64%
 - B. 28.57%
 - C. 18.83%



Note: The college wise breakup of students according to their nationalities applies uniformly for individual departments also

How many students doing mechanical engineering in college Q, were from India?

- Ops:
- A. 65
 - B. 75
 - C. 60
 - D. 72

C. 2:5

D. 4:5

Q 04. Caleb can work $\frac{2}{5}$ times as fast as Charles and Cameron work together. Caleb and Cameron can work together two times as fast as Charles. If Caleb takes 20 days to complete a task, working alone, then how long would Charles takes to complete the same task, working alone?

Ops: A. $(105/8)$ days

B. 12 days

C. 15 days

D. $(120/7)$ days

Q 05. Study the graphs carefully and answer the questions that follow.

Number of students studying in different streams
in six engineering colleges in Europe

Streams \ Colleges	Electronics	Electrical	Civil	Mechanical	Others
P	300	320	250	280	150
Q	250	200	220	260	200
R	310	240	200	180	120

Q 01. A dishonest salesman at a ration shop promises to sell his goods at cost price for the election day but he uses false weights with which he cheats by 10% while buying and by 10% while selling. What is his percentage profit?

- Ops:
- A. 0.2
 - B. 0.1818
 - C. 0.3333
 - D. 0.2222

Q 02. Find the total number of signals that can be made by six flags of different colour when any number of them may be used in any signal.

- Ops:
- A. 2048
 - B. 1990
 - C. 1844
 - D. 1956

Q 03. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

- Ops:
- A. 3:5
 - B. 5:4
 - C. 2:5
 - D. 4:5

Q 04. In an election among three contestants Ben, Carl, and Mark, Ben gets half of the votes of Carl. Mark beats Carl by 2000 votes. Carl beats Ben by 10% of the total votes. Find the number of votes won by Ben, if every vote casted was counted and not given to anyone except the given three contestants.

- Ops:
- A. 40000
 - B. 60000
 - C. 300000
 - D. 350000

Q 05. Garcia sold his bike at 14% profit. Had he charged \$120 more, his profit would have been 17%. What is the cost of the bike?

Sections

01. Quant Assessment

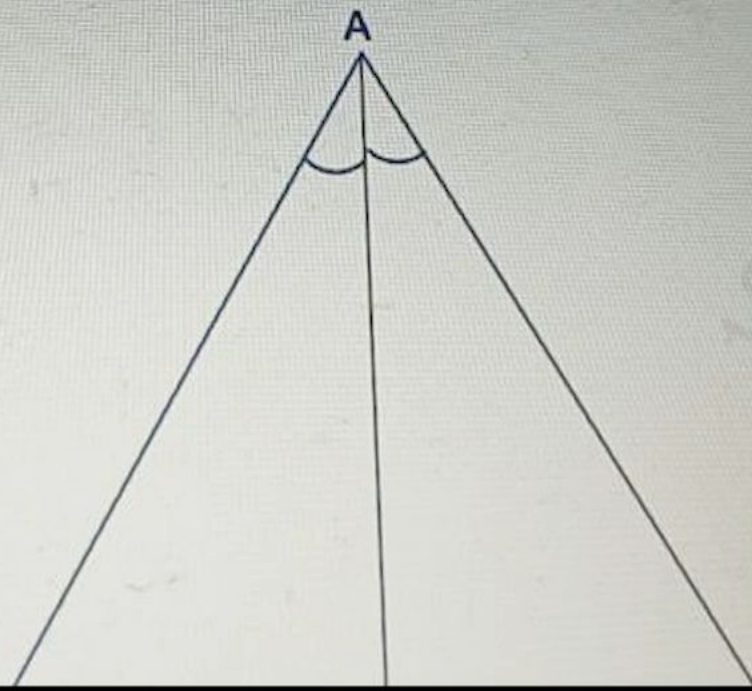
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01. Quant Assessment

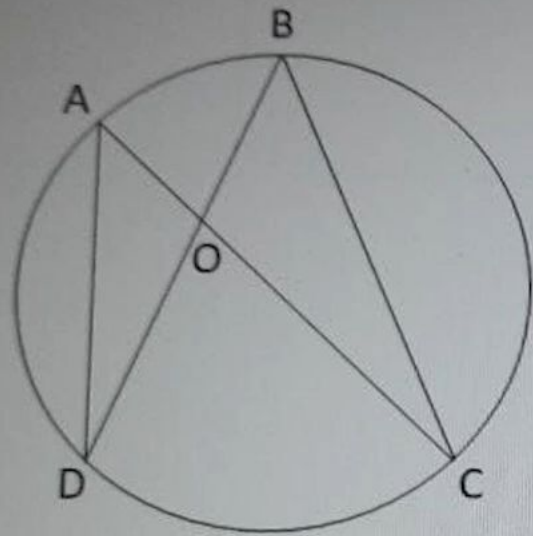
Q 01. At what rate of compound interest per annum, a sum of \$14,000 becomes \$15435 in 2 years?

- Ops:
- A. 8%
 - B. 11%
 - C. 5%
 - D. 10%

Q 02. In triangle ABC, AE is the angle bisector of angle CAB. If CE = 7 cm, EB = 5 cm and perimeter of triangle ABC is 84 cm, find the length of AC.



Q 26. In the following figure, $\angle ADB = 28^\circ$, $\angle CBD = 36^\circ$. Find the value of $\angle COD$.



- Ops: A. 64°
B. 96°
C. 128°
D. 116°

Q 27. Two number are in the ratio 13 : 11. If the difference of the numbers is 8, then find the larger of the two numbers.

- Ops: A. 44
B. 66

Q 27. After getting two equal successive discount percentage over a marked price of \$5000, a customer has to pay \$4232. What is the rate of each successive discounts?

- Ops: A. 12%
B. 10%
C. 6%
D. 8%

Q 28. In a bag, there are ten tickets numbered 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. A ticket is drawn at random and put back and this is done n times. The probability that the product of the numbers drawn on the tickets is even, is _____.

- Ops: A. $7/20$
B. $3/4$
C. $1/4$
D. $1/2$

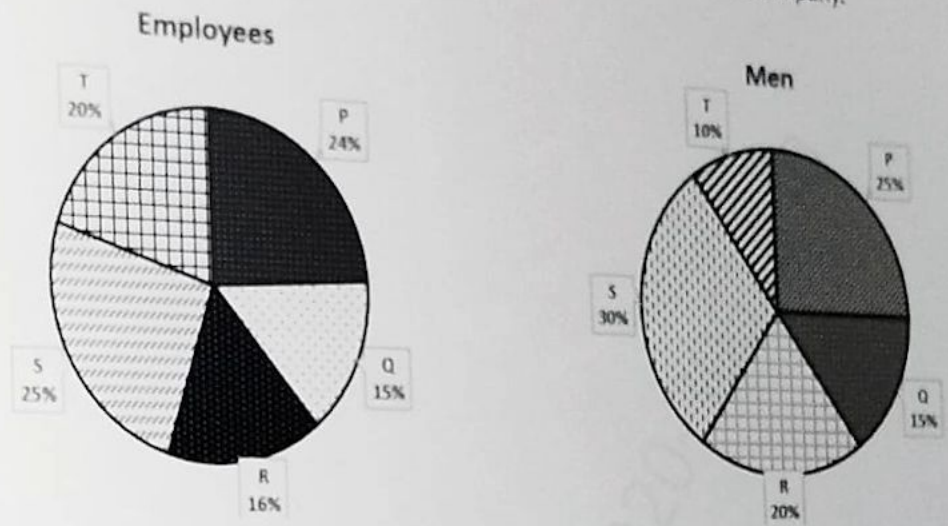
Q 29. Jeremy, a con-man, was running along a road at 10 km/hr. He crossed a policeman moving at a speed of 15 km/hr in the opposite direction. The policeman had to continue for 3 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the policeman to catch the con-man from the time he crossed him?

- Ops: A. 30
B. 25
C. 15
D. 18



01. Quant Assessment

Q 01. The first pie-chart represents the percentage break-up of employees in all the five departments of a company, and the second pie-chart represents the department-wise breakup of the total male employees in the company.



If the number of men in department P is equal to number of women in department Q, then find the ratio of number of men in department R with respect to number of women in department T?

- Ops:
- A. 6 : 11
 - B. 9 : 13
 - C. 6 : 13
 - D. 12 : 11

Q 02. Benedict's salary before he got an increment was 17.5% of the total income of his friend. His increment was one-third of his salary before the increment. What percentage of the total income of his friend is his new salary?
(Note: There was no increment in the salary of his friend)

... was no increment in the salary of his friend)
... income of his friend is his new salary?
... his friend. His increment was one-third of his salary before

- Ops:
- A. None of the mentioned options
 - B. 23.33%
 - C. 27.57%
 - D. 15.33%
 - E. 22.25%

Reset

Q 03. There are 18 points on a plane surface such that no three points are in a line. How many distinct triangle can be formed by joining these points?

- Ops:
- A. 816
 - B. 2448
 - C. 1224
 - D. 408

Q 04. A man drives a car for 3 minutes and covers a distance of 3.05 km. If for each minute, the distance covered is 25% more than the distance covered in the previous minute, then find the distance covered in the first minute.

- Ops:
- A. 750 m
 - B. 800 m
 - C. 900 m
 - D. 720 m

Q 05. The scores of Mimi and Lucy in a class test are in the ratio 11 : 13. If their total score is 480, find Mimi's score.

- Ops: A. 260
B. 165
C. 220
D. 195

Q 06. There are three natural numbers. The first and second are more than the third by 28% and 32% respectively. What percentage of the first number is the second number?

- Ops: A. 103.03%
B. 101.56%
C. 103.12%
D. 106.25%

Q 07. An integer n is chosen at random from a set of two digit positive integers. What is the probability that $(n - 2)(n + 2)$ is divisible by 8?

- Ops: A. $67/90$
B. $17/30$
C. $23/90$
D. $19/30$

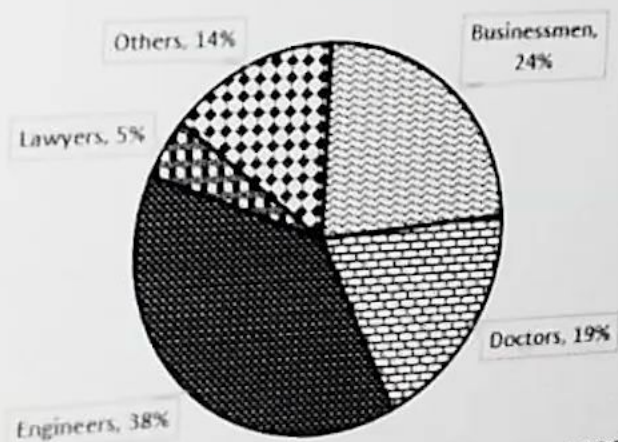
Q 08. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops:
- A. 31 : 29
 - B. 19 : 17
 - C. 29 : 31
 - D. 17 : 19

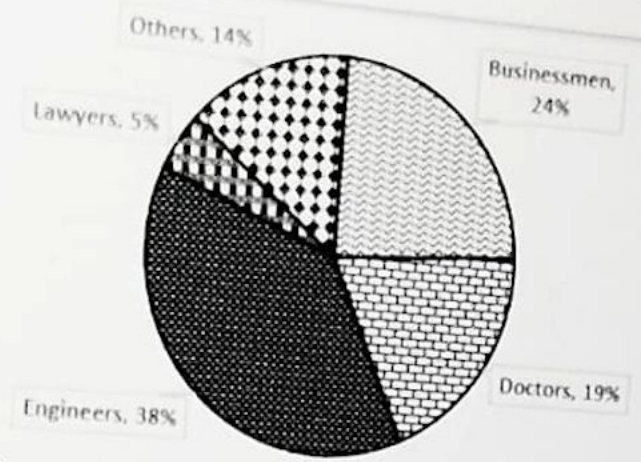
Q 09. The given pie chart represents the break up of working men in a colony.

Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000



Total number of working men in the colony = 6000

How many of the working men are engineers or doctors?

- Ops:
- A. 1140
 - B. 3420
 - C. 2280
 - D. 2420

Q 10. There are two pipes A and B connected to a tank of 350 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 5 litres/hour. If the total time taken by both the pipes to fill the tank is 40 hours, then find the value of x.

- Ops:
- A. 15.33
 - B. 13.75
 - C. 11.67
 - D. 12.25



Q 11. In a triangle ABC, AP, BQ and CR bisect BC, AC and AB at P, Q and R respectively. AP, BQ and CR intersect each other at point O. If area of triangle AOQ is 17 cm^2 then, find the area of triangle ABC.

- Ops:
- A. 51 cm^2
 - B. 153 cm^2
 - C. 136 cm^2
 - D. 102 cm^2

Q 12. There are five dogs, seven cats and six horses in a group of animals. Parker randomly selects two animals from the group. What is the probability that both are dogs or cats or horses?

- Ops:
- A. $54/153$
 - B. $61/153$
 - C. $38/153$
 - D. $46/153$

ment, are to share their four-days tour expenses such that Andy's share is four-
Andy pays the bill which amounts to 6000

Q 13. Three persons Andy, Bruce and Charles, as per their agreement, are to share their four-days tour expenses such that Andy's share is four-fifth of Bruce's share and Charles's share is 40% more than Bruce's share. On the first day, Andy pays the bill which amounts to \$800. The second day's bill accounting to \$600 was cleared by Bruce, while Charles clears the last two day's bill of \$1000. During the final settlement of their expenses, how much amount does Charles need to pay to Andy?

- Ops:
- A. \$75
 - B. \$50
 - C. \$100
 - D. \$150

Q 14. Lin can complete a task in x days, Josh can complete it in 18 days. Christian can complete the same task in 24 days. Christian started the task. After 3 days, Lin and Josh joined. If the task is completed in 4 more days, then find the value of x .

- Ops:
- A. $212/33$
 - B. $212/35$
 - C. $288/35$
 - D. $202/35$

Q 15. Bonny gained 20% by selling a novel at \$120. Find the price at which she purchased the novel.

- Ops:
- A. \$140
 - B. \$120
 - C. \$100
 - D. \$155

Q 16. Billiard, a con-man, was running along a road at 12 km/hr. He crossed a policeman moving at a speed of 15 km/hr in the opposite direction. The policeman had to continue for 8 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the policeman to catch the con-man from the time he crossed him?

- Ops: A. 27
 B. 90
 C. 80
 D. 72

Q 17. Vinny secured 49.5% of the total votes polled in an election. She lost to her opposition by 30,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.

- Ops: A. 3000000
 B. 1000000
 C. 300000
 D. 30000000

Q 18. John reaches his destination which is 24 km away, 30 minutes late, if he travels at 8 km/hr. What should his speed be if he wishes to reach 30 minutes early of the right time?

- Ops: A. 8 km/hr
 B. 10 km/hr
 C. 12 km/hr
 D. 6 km/hr

themselves in the ratio of 4 : 5 : 11. Their rates of work are in the ratio 2 : 3 : 5. It takes



Assessment

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- Ops: A. 3000000
B. 1000000
C. 300000
D. 30000000

Q 18. John reaches his destination which is 24 km away, 30 minutes late, if he travels at 8 km/hr. What should his speed be if he wishes to reach 30 minutes early of the right time?

- Ops: A. 8 km/hr
B. 10 km/hr
C. 12 km/hr
D. 6 km/hr

Q 19. Lara, Jerry and Bruce divide a work amongst themselves in the ratio of 4 : 5 : 11. Their rates of work are in the ratio 2 : 3 : 5. It takes Lara 16 days to complete his part. What is the amount of work completed by them in 10 days from the start?

- Ops: A. 31/60
B. 31/40
C. 31/80
D. 31/120

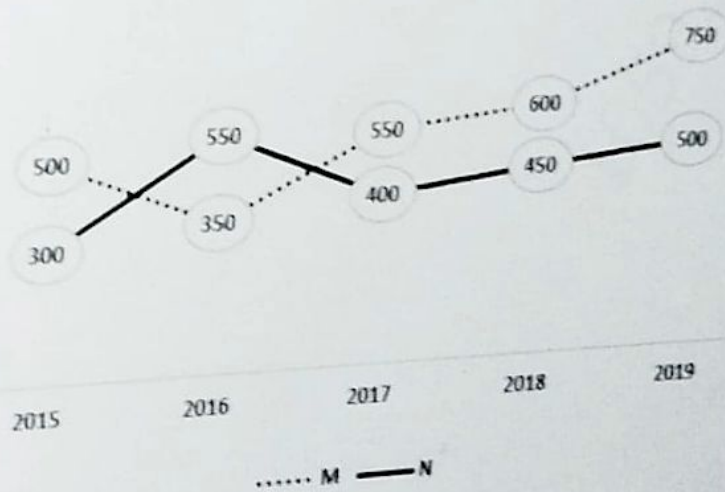
(in millions) exported by two countries M and N from 2015 to 2019.

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- Ops: A. 31/60
 B. 31/40
 C. 31/80
 D. 31/120

Q 20. The following line graph gives the number of computer peripherals (in millions) exported by two countries M and N from 2015 to 2019. Study the graph carefully and answer the questions that follow.

Number of computer peripherals (in millions) exported by two countries M and N across five years



What is the ratio of the number of computer peripherals exported by country M and country N together in 2015 to that exported by both countries together in 2017?

What is the ratio of the number of computer peripherals exported by country M and country N together in 2015 to that exported by both countries together in 2017?

- Ops: A. 16 : 19
B. 27 : 31
C. 18 : 23
D. 17 : 19

Q 21. Five years ago, Pam's age was three times Sarah's age. Five years hence, Pam's age will be twice Sarah's age. After how many years from now will their combined age be 78 years?

- Ops: A. 13
B. 12
C. 14
D. 15

Q 22. If words formed from rearranging the letters of word 'CONTRACT', then what will be the rank of word 'RACNOTCT' ?

- Ops: A. 6317
B. 6487
C. 6497
D. None of the mentioned options



Q 23. In a certain district, the number of people who finished high school and to the people who finished only elementary school were in the ratio 2 : 1. After 3 years 50 more people finished high school and 200 more people finished elementary school and ratio changed to 3 : 4. What will be the difference in the number of people who finished high school and the ones who finished elementary school?

- Ops: A. 80
B. 60
C. 100
D. 40

Q 24. A dishonest salesman at a plant seed shop promises to sell his goods at cost price for the international environment day but he uses false weights with which he cheats by 12% while buying and by 12% while selling. What is his percentage profit?

- Ops: A. 0.3131
B. 0.25
C. 0.2727
D. 0.241

Q 25. If $f(m) = m^3 - 4m + 8$, then find the remainder when $f(m)$ is divided by $m - 2$.

- Ops: A. 6
B. 16
C. 12
D. 8

and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the

P and Q appeared in an exam. Sum of P's score and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the ratio of score obtained by P and Q.

- Ops: A. 13 : 11
B. 11 : 13
C. 12 : 11
D. 13 : 12

Q 27. Vinay borrowed ₹32,000 from a bank at a 10% p.a. rate of interest compounded annually. Find the amount that he has to pay to the bank after 3 years.

- Ops: A. ₹45,254
B. ₹50,578
C. ₹42,592
D. ₹47,916

Q 28. Marco invested in two schemes - \$12,000 in Scheme A for one year at a simple annual rate of 6% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 10% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops: A. \$1338
B. \$2098
C. \$1746
D. \$2297

Q 28. Marco invested in two schemes - \$12,000 in Scheme A for one year at a simple annual rate of 6% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 10% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops: A. \$1338
B. \$2098
C. \$1746
D. \$2297

Q 29. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops: A. 191/52
B. -9/22
C. 11/26
D. -13/22

Q 30. In a company Rely United Pvt. Ltd., 25% of total women are more than 29 years old and 80% of the total women are less than or equal to 60 years old. 30% of all women play volleyball. If 10% of the women below or equal to 29 years play volleyball, what percentage of the volleyball players are less than or equal to 29 years?

- Ops: A. 0.2824
B. 0.25
C. 0.1735
D. 0.1667



01. Quant Assessment

30 questions, 1 mark each

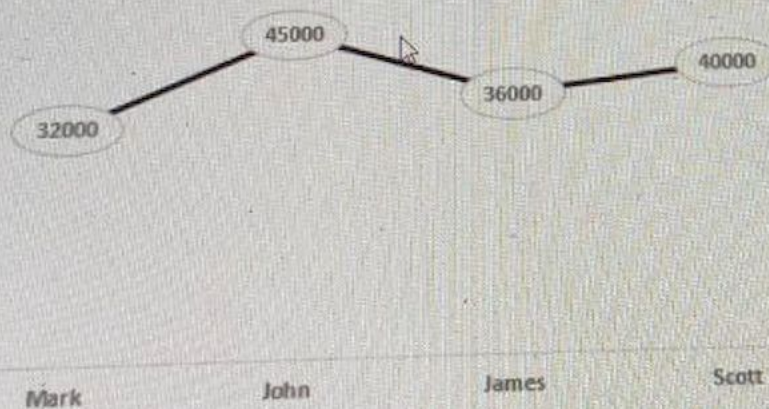
Q 01. Find the minimum value of $(k + 1/k)$, if $k > 0$.

- Ops: A. 2
B. 0
C. -2
D. 1

Reset

Q 02. Study the graphs carefully and answer the questions that follow.

Monthly expenditure (in dollars) of four persons
- Mark, John, James and Scott



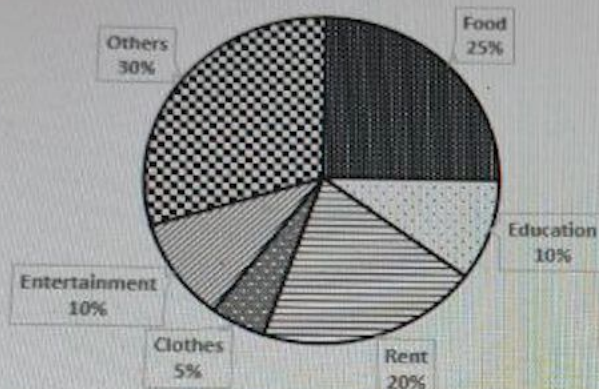
Note: The average expenditure of the five persons Mark, John, Clint, James and Scott is \$39,000.

Breakup of Clint's Expenditure

Food
25%

Note: The average expenditure of the five persons Mark, John, Clint, James and Scott is \$39,000.

Breakup of Clint's Expenditure



If Mark and James spent respectively 25% and 30% of their expenditure on others, then by what percentage was the expenditure of Clint on others less than that of combined expenditures of Mark and James on others?

- Ops:
- A. 0.3298
 - B. 0.3777
 - C. 0.4615
 - D. 0.2708

Reset

Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops: A. 31: 29



If Mark and James spent respectively 25% and 30% of their expenditure on others, then by what percentage was the expenditure of Clint on others less than that of combined expenditures of Mark and James on others?

- Ops: A. 0.3298
B. 0.3777
C. 0.4615
D. 0.2708

Reset

Q 03. Morrie and Maryline start simultaneously from Block P and Block Q and walk towards Block Q and P respectively. Block P and Block Q are 1200 m apart. On reaching their respective destinations, they turn around and move towards their respective starting points. They continue to travel this way indefinitely. The second time the two meet at the point S, 500 m from Block Q. Find the ratio of the speed of Morrie and Maryline.

- Ops: A. 31 : 29
B. 29 : 31
C. 17 : 19
D. 19 : 17

Reset

Q 04. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops: A. 11/26

Q 04. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops: A. 11/26
B. 191/52
C. -9/22
D. -13/22

Reset

Q 05. If words are formed from rearranging the letters of word 'CONTRACT', then which word is the 6301th ?

- Ops: A. RACNTTOC
B. RANCCTOT
C. RACNOTCT
D. RACCNOTT

Reset

Q 06. Lin can complete a task in 12 days, while John can complete it in x days. Chris can complete the same task in 24 days. Lin started the task. After 3 days, Lin and John joined. If the task is completed in 4 more days, then find the value of x.

- Ops: A. 15
B. 16
C. 18
D. 14

Reset

Q 04. What is the minimum value of the following expression on x-axis?

$$11a^2 + 13a + 6$$

- Ops:
- A. 11/26
 - B. 191/52
 - C. -9/22
 - D. -13/22

Reset

Q 05. If words are formed from rearranging the letters of word 'CONTRACT', then which word is the 6301th ?

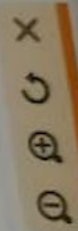
- Ops:
- A. RACNTTOC
 - B. RANCCTOT
 - C. RACNOTCT
 - D. RACCNOTT

Reset

Q 06. Lin can complete a task in 12 days, while John can complete it in x days. Chris can complete the same task in 24 days. Lin started the task. After 3 days, Lin and John joined. If the task is completed in 4 more days, then find the value of x.

- Ops:
- A. 15
 - B. 16
 - C. 18
 - D. 14

Reset



The second day's bill amounting to \$600 was cleared by Bruce, while Charles clears the last two day's bill of \$1000. During the final settlement of their expenses, how much amount does Charles need to pay to Andy?

- Ops:
- A. \$100
 - B. \$150
 - C. \$75
 - D. \$50

Reset

Q 08. In a company Rely United Pvt. Ltd., 25% of total women are more than 29 years old and 80% of the total women are less than or equal to 60 years old. 30% of all women play volleyball. If 10% of the women below or equal to 29 years play volleyball, what percentage of the volleyball players are less than or equal to 29 years?

- Ops:
- A. 0.2824
 - B. 0.25
 - C. 0.1735
 - D. 0.1667

Reset

Q 09. John reaches his destination which is 24 km away, 30 minutes late, if he travels at 8 km/hr. What should his speed be if he wishes to reach 30 minutes early of the right time?

- Ops:
- A. 6 km/hr
 - B. 12 km/hr
 - C. 8 km/hr
 - D. 10 km/hr

Q 10. A delivery truck covers a distance of 270 km at two different speeds. The first 120 km is covered in 60 kmph and the rest is covered in 75 kmph. What is the average speed of the truck (in kmph)?

- Ops:
- A. 70.2 kmph
 - B. 67.5 kmph
 - C. 64.5 kmph
 - D. 60.6 kmph

Reset

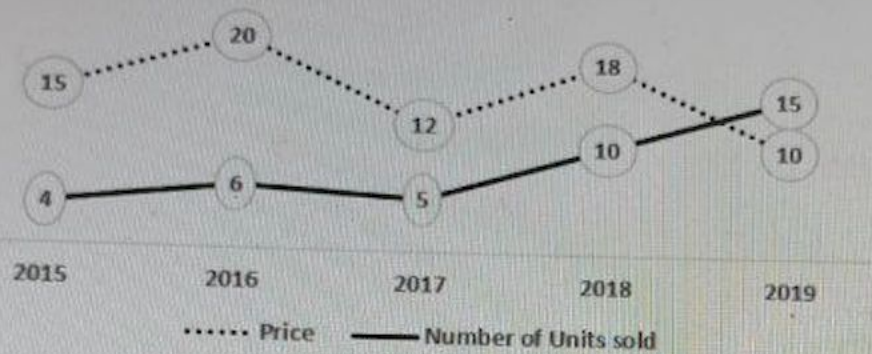
Q 11. Billiard, a con-man, was running along a road at 12 km/hr. He crossed a cop moving at a speed of 15 km/hr in the opposite direction. The cop had to continue for 7 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the cop to catch Billiard from the time he crossed him?

- Ops:
- A. 70
 - B. 54
 - C. 45
 - D. 63

Reset

Q 12. The following line graph gives the percentage increase in the price of an item over a period of 5 years and the percentage increase in the number of units of the item sold.

of an item over a period of 5 years



Note: All the values are the increase over previous years. In 2014, the price of the item was \$2000 and the number of units sold was 50,000.

Sales (by value) = (price) * (number of units sold)

What was the percentage increase in the price of an item from 2014 to 2016?

- Ops:
- A. 0.38
 - B. 1.38
 - C. 1.1024
 - D. 0.1024

Reset

Q 13. Five years ago, Pam's age was three times Sarah's age. Five years hence, Pam's age will be twice Sarah's age. After how many years from now will their combined age be 74 years?

Submit

Reset

Q 13. Five years ago, Pam's age was three times Sarah's age. Five years hence, Pam's age will be twice Sarah's age. After how many years from now will their combined age be 74 years?

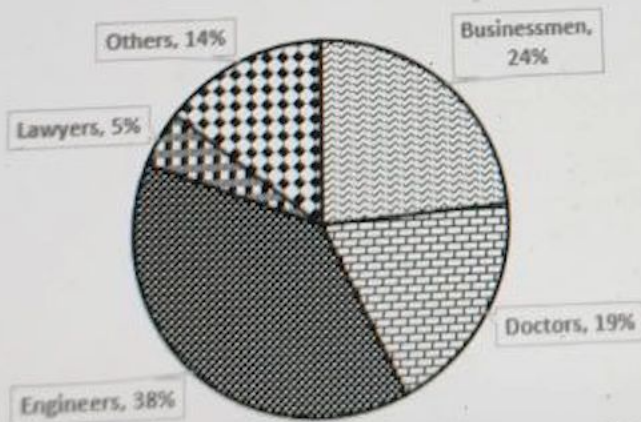
- Ops:
- A. 13
 - B. 15
 - C. 12
 - D. 14

Reset

Q 14. The given pie chart represents the break up of working men in a colony.

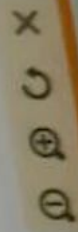
Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000

Submit



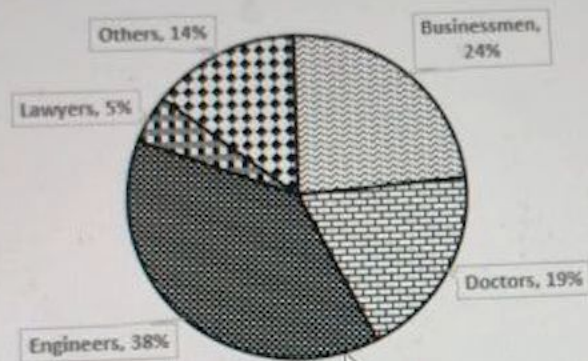
01. Quant Assessment

30 / 30 attempted

Q 14. The given pie chart represents the break up of working men in a colony.

Study the chart carefully and the answer the questions that follow.

Percentage distribution by Profession



Total number of working men in the colony = 6000

How many of the working men are engineers or doctors?

- Ops:
- A. 1140
 - B. 3420
 - C. 2280
 - D. 2420

Reset

Q 15. In a certain district, the number of people who finished high school and to the people who finished only elementary school were in the ratio 2 : 1. After 3 years 50 more people finished high school and 200 more people finished elementary school and ratio changed to 3 : 4. What

Submit

D. 2420

Reset

Q 15. In a certain district, the number of people who finished high school and to the people who finished only elementary school were in the ratio 2 : 1. After 3 years 50 more people finished high school and 200 more people finished elementary school and ratio changed to 3 : 4. What will be the difference in the number of people who finished high school and the ones who finished elementary school?

- Ops:
- A. 60
 - B. 80
 - C. 100
 - D. 40

Reset

Q 16. Bonny gained 20% by selling a novel at \$120. Find the price at which she purchased the novel.

- Ops:
- A. \$140
 - B. \$100
 - C. \$120
 - D. \$155

Reset

Submit

Q 17. Harish, a bank officer, invests ₹7600 per month. He spends 50% of it on stock market and 40% of the remaining amount on...

Reset

Q 17. Harish, a bank officer, invests \$7600 per month. He spends 50% of it on stock market and 40% of the remaining on cryptocurrency market. Out of the remaining amount, he invests in mutual funds. What amount does he invest in mutual funds?

- Ops:
- A. \$2340
 - B. \$2280
 - C. \$2160
 - D. \$2250

Reset

Q 18. The scores of Mimi and Lucy in a class test are in the ratio 11 : 13. If their total score is 480, find Mimi's score.

- Ops:
- A. 220
 - B. 260
 - C. 165
 - D. 195

Reset

Q 19. An integer n is chosen at random from a set of two digit positive integers. What is the probability that $(n - 2)(n + 2)$ is divisible by 8?

Submit

Reset

Q 19. An integer n is chosen at random from a set of two digit positive integers. What is the probability that $(n - 2)(n + 2)$ is divisible by 8?

- Ops: A. 23/90
B. 19/30
C. 67/90
D. 17/30

Reset

Q 20. 11 players are chosen from a group of 15 players to play cricket. If 5 particular players are always selected then, how many distinct teams can be formed?

- Ops: A. 210
B. 455
C. 231
D. 252

Reset

Q 21. Varun spends 36% of his salary on rent and groceries. From the remaining, he spends one-fifth on medicines and then spends half of remaining on travel. If he is left with \$4320, then what was his salary?

- Ops: A. \$16,875

Submit

C. 231

D. 252

Reset

Q 21. Varun spends 36% of his salary on rent and groceries. From the remaining, he spends one-fifth on medicines and then spends half of remaining on travel. If he is left with \$4320, then what was his salary?

Ops: A. \$16,875

B. \$15,600

C. \$16,275

D. \$17,625

Reset

Q 22. There are two pipes A and B connected to a tank of 500 litres capacity. A fills the tank at the rate of 'x' litres/hour, while B drains the tank at 8 litres/hour. If the total time taken by both the pipes to fill the tank is 80 hours, then find the value of x.

Ops: A. 12.33

B. 14.25

C. 16.67

D. 18.25

Reset

Submit

Q 23. Ally borrowed ₹34,000 from a bank at a 20% p.a. rate of interest, compounded annually. Find the amount that she has to pay to the bank after 4 years.

- Ops:
- A. ₹47,916
 - B. ₹45,254
 - C. ₹70,502
 - D. ₹79,511

Reset

Q 24. Two numbers are selected among 1, 2, 3, 4, 5, 6, 7, 8 and 9 at random. What is the probability that their sum is odd?

- Ops:
- A. $4/9$
 - B. $2/9$
 - C. None of the mentioned options
 - D. $5/9$

Reset

Q 25. P and Q appeared in an exam. Sum of P's score and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the ratio of score obtained by P and Q.

- Ops: A. 12 : 11

Submit

Q 24. Two numbers are selected among 1, 2, 3, 4, 5, 6, 7, 8 and 9 at random. What is the probability that their sum is odd?

- Ops: A. 4/9
B. 2/9
C. None of the mentioned options
D. 5/9

Reset

Q 25. P and Q appeared in an exam. Sum of P's score and thrice Q's score is 350 and difference of twice P's score and Q's score is 63. Find the ratio of score obtained by P and Q.

- Ops: A. 12 : 11
B. 13 : 12
C. 11 : 13
D. 13 : 11

Reset

Q 26. Andrea goes to Billy, a shopkeeper, to purchase a baseball kit for \$35 and gives Billy a \$100 note. Billy does not have change and hence goes to Claire to get change. Billy returns and gives back Andrea \$65. Later Claire realises that the \$100 note was a duplicate and asks Billy to return her money. Billy returns the money to Claire. What is the loss incurred by Billy if it is given that he sold the baseball kit at a profit of 25%?

- Ops: A. 65

Submit

Q 26. Andrea goes to Billy, a shopkeeper, to purchase a baseball kit for \$35 and gives Billy a \$100 note. Billy does not have change and hence goes to Claire to get change. Billy returns and gives back Andrea \$65. Later Claire realises that the \$100 note was a duplicate and asks Billy to return her money. Billy returns the money to Claire. What is the loss incurred by Billy if it is given that he sold the baseball kit at a profit of 25%?

- Ops:
- A. 65
 - B. 93
 - C. 27
 - D. 28

Reset

Q 27. Benedict's salary before he got an increment was 17.5% of the total income of his friend. His increment was one-third of his salary before the increment. What percentage of the total income of his friend is his new salary?
(Note: There was no increment in the salary of his friend)

- Ops:
- A. 22.25%
 - B. None of the mentioned options
 - C. 27.57%
 - D. 15.33%
 - E. 23.33%

Reset

Q 28. Jacob invests \$740,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$900,000, then find x .

Submit

E. 23.33%

Reset

Q 28. Jacob invests \$740,000 in a savings bank account at the rate of $x\%$ compounded quarterly in January 2020. If the total amount received by Jacob in March 2021 is \$900,323, then find x .

Ops: A. 20%

B. 8%

C. 16%

D. 12%

Reset

Q 29. Lione can complete a task in 12 days, John can complete it in 18 days. Chris can complete the same task in x days. Chris started the task. After 3 days, Lione and John joined. If the task is completed in 4 more days, then find the value of x .

Ops: A. 17.28

B. 16.5

C. 14.25

D. 15.75

Reset

Submit

Reset

Q 30. O is the centroid of triangle ABC. P is the centroid of triangle ABO. If area of triangle ABP is 14 cm^2 then, find the area of triangle ABC.

- Ops:
- A. 126 cm^2
 - B. 84 cm^2
 - C. 42 cm^2
 - D. 168 cm^2

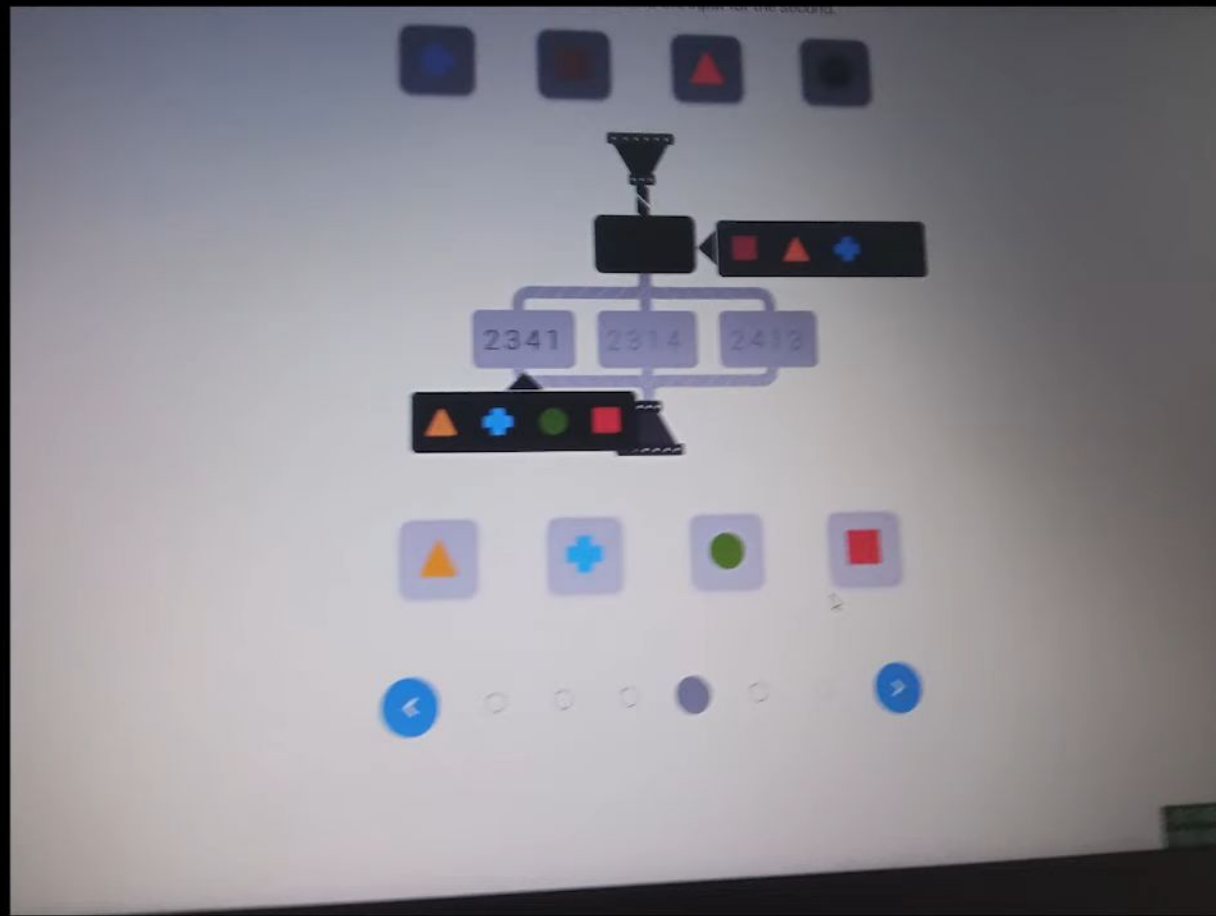
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Previous Section

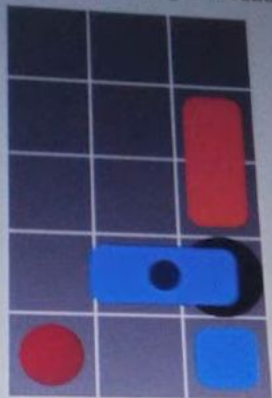
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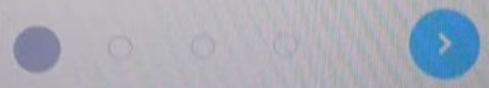


Move objects up/down/left/right to reach the hole.



0





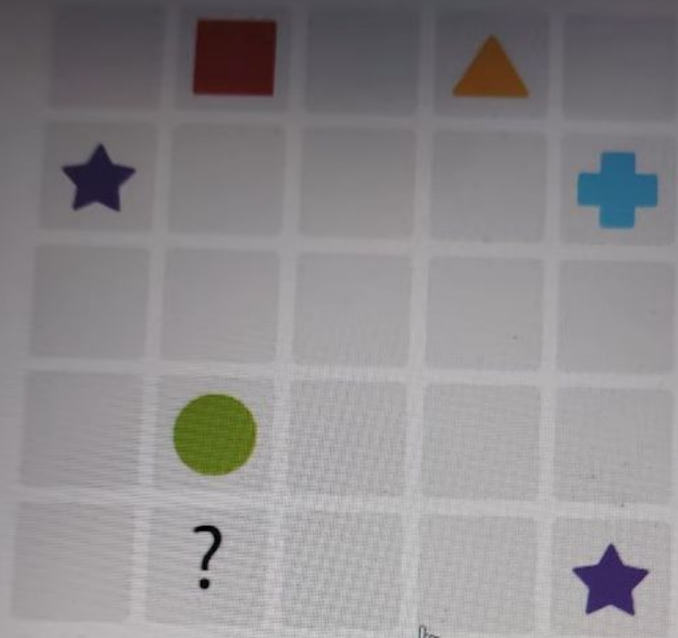
These two grids follow a rule.



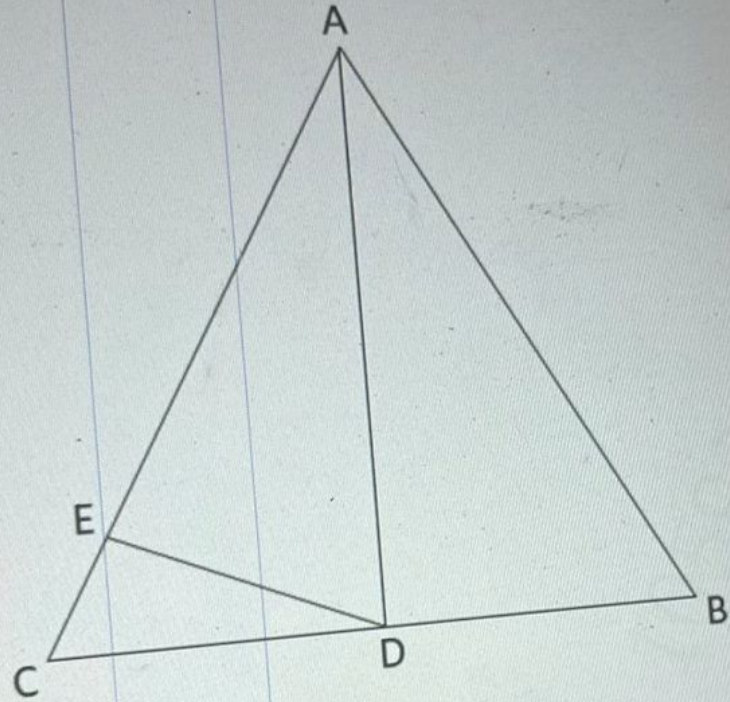
Which two of these grids follow the same rule?



Here is an example.



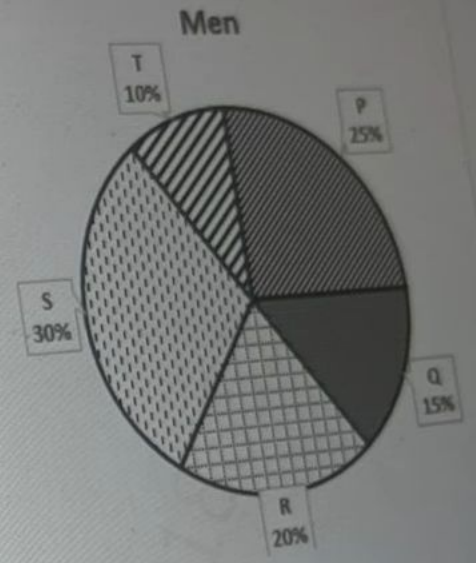
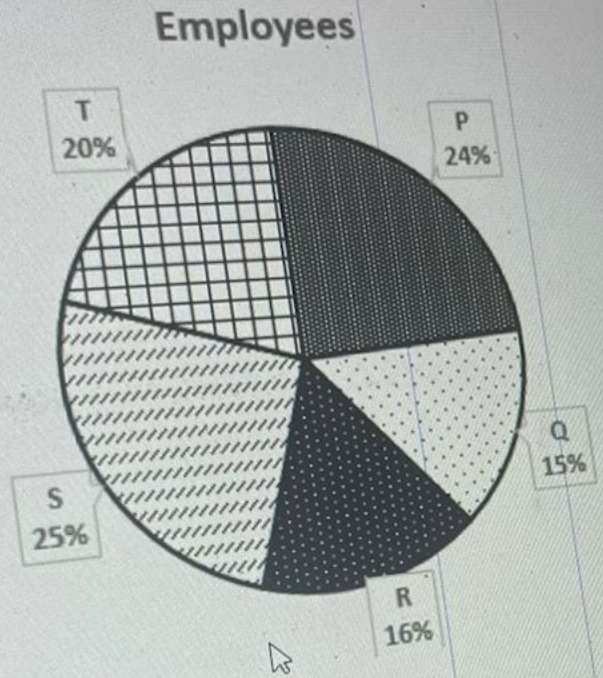
Q 23. In triangle ABC, AD intersect CB at point D such that $CD : DB = 2 : 5$ and DE intersect AC at point E such that $AE : EC = 7 : 3$. What is the area of triangle ADB if area of triangle DEC is 36 cm^2 ?



- Ops:
- A. 240 cm^2
 - B. 120 cm^2
 - C. 180 cm^2
 - D. 300 cm^2

... while a leak which is at three-fifth the height of the tank (from bottom) can empty upto that p
... the tank is full, then when will it be three-fifth full?

Q 01. The first pie-chart represents the percentage break-up of employees in all the five departments of a company, and the second pie-chart represents the department-wise breakup of the total male employees in the company.



If the number of men in department P is equal to number of women in department Q, then find the ratio of number of men R with respect to number of women in department T?

- Ops:
- A. 12 : 11
 - B. 6 : 13
 - C. 6 : 11
 - D. 9 : 13

Ma purchased a video player for \$1200, and marked the price of the video player at a profit of 10%. Find the marked price of the video player.

Q 13. The table represents percentage of students in the classes, who passed in the annual exams in the year 2019-20. Study the table carefully and the answer the questions that follow.

Class	Number of students	Percentage of students who passed
7	240	75%
8	180	60%
9	200	70%
10	160	50%
11	225	60%
12	300	80%

[Note: The students either passed or failed in the examination, and each student appeared for the exam]

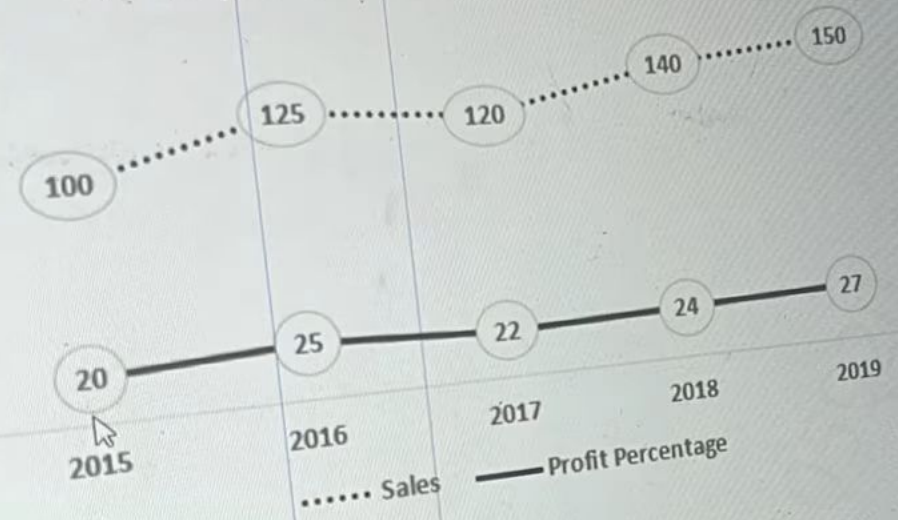
How many students of class 8 failed in the annual exam?

- Ops:**
- A. 60
 - B. 72
 - C. 82
 - D. 108

...votes polled in an election. She lost to her contestant by 10,000 votes. All the votes ...

Q 22. The following line graph gives the sales and profit percentage of a company across five years from 2015. The value of sales in 2015 have been taken as 100. All values in the succeeding years are indexed to the value in 2015. Study the graph carefully and answer the questions that follow.

Sales and profit percentage of a company across 5 years



$$\text{Profit percentage} = (\text{Profit}/\text{Expenses}) * 100$$

$$\text{Sales} = \text{Expenses} + \text{profit}$$

If the value of sales in 2015 were 400 million dollars, then what were the profit in 2017?

- Ops:**
- A. 100 million dollars
 - B. 86.56 million dollars
 - C. 112.24 million dollars
 - 120 million dollars

Q 02. Burak owns a shop of video players. He purchased a video player for \$1200, and marked the price of the video player in such a way that by offering a discount of 20%, he would earn a profit of 10%. Find the marked price of the video player.

- Ops:**
- A. \$1425
 - B. \$1650
 - C. \$1550
 - D. \$1575

Q 03. Marco invested in two schemes - \$12,000 in Scheme A for one year at a simple annual rate of 6% p.a. and \$14,000 in Scheme B for two years at an annual interest rate of 10% p.a. compounded semiannually. What is the approximate difference in interests earned by both schemes?

- Ops:**
- A. \$2297
 - B. \$1746
 - C. \$1338
 - D. \$2098

Q 04. The ratio of the ages of Mansa, Larah, and Sammy is 5 : 7 : 9. If Sammy's age is 36 years old, then find the age of Mansa.

- Ops:**
- A. 20 years

Q 10. Abraham can complete a task in 12 days, Jade can complete it in 18 days. Carl can complete the same task in x days. Carl started the task. After 3 days, Abraham and Jade joined. If the task is completed in 4 more days, then find the value of x .

- Ops:
- A. 15.75
 - B. 16.5
 - C. 17.28
 - D. 14.25

Q 11. Car M started driving East from point P at 8 : 00 a.m. Car N started driving East from point P at 11 : 00 a.m. The ratio of the speed of M and N is 4 : 5. Find their meeting time.

- Ops:
- A. 2 : 24 p.m.
 - B. 12 : 24 p.m.
 - C. 11 : 00 p.m.
 - D. 12 : 12 p.m.

Q 12. Billiard, a con-man, was running along a road at 10 km/hr. He crossed a cop moving at a speed of 15 km/hr in the opposite direction. The cop had to continue for 16 minutes before he could find a gap in the road and start chasing him again. Find the total time taken (in minutes) by the cop to catch Billiard from the time he crossed him?

- Ops:
- A. 96
 - B. 60
 - C. 80
 - D. 75

Q 07. Morry is very conscious about her diet. She consumes 800 gm of a mixture of food C and food D everyday. C contains 60% protein and D contains 40% protein. If the mixture contains 52.5% of protein, then what percentage of the mixture is food C?

- Ops:**
- A. 62.5%
 - B. 37.5%
 - C. 52.5%
 - D. 47.5%

Q 08. In set of 12 cards having numbers from 1 to 12, three cards are drawn from the set one at a time without replacement. Suppose two even number is considered as 'a success', then find the probability of getting no success.

- Ops:**
- A. 9/22
 - B. 6/11
 - C. 15/22
 - D. 13/22

Q 09. If $3x^2 + 18x + 15 = 0$, what will be the cube of the product of sum of roots and product of roots?

- Ops:**
- A. 9000
 - B. -9000
 - C. 27000
 - D. -27000

... can complete the same task in x days. C

Q 04. The ratio of the ages of Mansa, Larah, and Sammy is 5 : 7 : 9. If Sammy's age is 36 years old, then find the age of Mansa.

- Ops:**
- A. 20 years
 - B. 28 years
 - C. 12 years
 - D. 32 years

Q 05. At what rate of interest per annum would an amount \$425 yield a simple interest of \$102 in three years?

- Ops:**
- A. 8%
 - B. 6%
 - C. 12%
 - D. 5%

Q 06. In m minutes from now, the time will be noon, where m is an integer. 16 minutes ago, the time was $7m$ minutes past 10 a present time.

- Ops:**
- A. 11 : 47 a.m.
 - B. 11 : 48 a.m.
 - C. 11 : 50 a.m.
 - D. 11 : 49 a.m.

Q 14. Juhi secured 49.5% of the total votes polled in an election. She lost to her contestant by 10,000 votes. All the votes polled were valid. Find the number of votes polled if there were only two contestants.

- Ops:**
- A. 2000000
 - B. 100000
 - C. 10000000
 - D. 1000000

Q 15. A test tube contains a certain solution of water, soap and sugar. The ratio of water to soap is 2:1 and the ratio of soap to sugar is 2 times this ratio. The solution is transferred in a pan and heated up. After some time the ratio of water to soap in the pan is now reduced to one third by water evaporation. What will be the ratio of water to sugar now?

- Ops:**
- A. 8:3
 - B. 2:1
 - C. 12:3
 - D. 3:1

Q 16. There are three natural numbers. The first and second are more than the third by 32% and 36% respectively. What percentage of the first number is the second number?

- Ops:**
- A. 101.56%
 - B. 106.25%
 - C. 103.03%
 - D. 103.12%

Find the original price of the item.

Q 17. The price of a play station becomes \$480 after it decreases by 20%. Find the original price of the item.

- Ops:
- A. \$625
 - B. \$550
 - C. \$500
 - D. \$600

Q 18. The ratio of the number of employees in two verticals of a bank is 8 : 7. If 4 employees are added to each of the verticals, then the ratio of the number of employees becomes 9 : 8. Find the initial number of employees in each vertical.

- Ops:
- A. 32, 28
 - B. 24, 28
 - C. 26, 30
 - D. 40, 35

Q 19. A travel articles company sells travel gear at a loss of 20% during the winter season because of high snowfall and low demand, at a loss of 15% during peak tourist season and at a loss of 10% at all other times. If the SP is same throughout the year, find by how much percent (approximate) is their average CP is lower or higher than their SP.

- Ops:
- A. 25%
 - B. 8.33%
 - C. 11.11%
 - D. 108.33%

Q 20. M and N can individually complete a work in 18 days and 54 days respectively. If M works at one-third of his usual rate and N works at twice of his usual rate, then how long will they take to complete 40% of the work together?

- Ops:**
- A. 10.4 days
 - B. 11.2 days
 - C. 10.8 days
 - D. 7.2 days

Q 21. Jeffery travelled from Mumbai to Delhi at a certain constant speed and returned at a certain constant speed. His average speed for the entire trip was the average of his onward and return speeds. He travelled a total distance of 2400 km in 16 hours. Find his average speed (in kmph).

- Ops:**
- A. 150
 - B. 100
 - C. 120
 - D. 160

... the sales and profit percentage of a company across five years from 2015. The value of

Q 24. A pipe can fill a tank in 15 hours, while a leak which is at three-fifth the height of the tank (from bottom) can empty upto that part in 4 hours. If both are opened simultaneously and initially the tank is full, then when will it be three-fifth full?

- Ops:**
- A. 12 hours
 - B. 10 hours
 - C. 9 hours
 - D. 8 hours

Q 25. A 80m long train is running at a speed of 54 kmph and passess a building. What is the time taken by the train to pass by the building?

- Ops:**
- A. 9 seconds
 - B. 8 seconds
 - C. 5.3 seconds
 - D. 4.5 seconds

Q 26. Find the difference of the roots of the equation $m^2 - 7m + 12 = 0$.

- Ops:**
- A. 2
 - B. 1

Q 26. Find the difference of the roots of the equation $m^2 - 7m + 12 = 0$.

- Ops:
- A. 2
 - B. 1
 - C. 4
 - D. -1

Q 27. In a party total number of handshakes take place is 595. If each person handshakes with every other person then how many persons are there in the party?

- Ops:
- A. 38
 - B. 34
 - C. 35
 - D. 42

Q 28. Judith owns a shop of furniture. He gives a discount of 20%, whenever a customer makes card payment on the purchase of an item. 'm' denote the percentage, above the cost price, that he must mark up the price of the item in order to make a profit of z% ($0 < z < 100$).

Which of the following is the possible value(s) of m?

[Note: m and z are natural numbers]

- Ops:
- A. All of the mentioned options
 - B. 100
 - C. 30
 - D. 25

D. 35

Q 29. In how many ways 11 balls can be selected from 12 blue, 8 red and 10 green balls if same colour balls are identical? Given that a two balls are selected from all colours and ways of selection of balls do not matter.

Ops: A. 30

B. 21

C. 27

D. 24

Q 30. The probabilities that Mark and John will survive within a pandemic are $\frac{2}{3}$ and $\frac{5}{6}$ respectively, then the probability that or them will be able to survive at the end of the pandemic is _____.

Ops: A. $\frac{7}{18}$

B. $\frac{11}{18}$

C. $\frac{5}{18}$

D. $\frac{1}{9}$

Q 13. The table represents percentage of students in the classes, who passed in the annual exams in the year 2019-20. Study the table carefully and the answer the questions that follow.

Class	Number of students	Percentage of students who passed
7	240	75%
8	180	60%
9	200	70%
10	160	50%
11	225	60%
12	300	80%

[Note: The students either passed or failed in the examination, and each student appeared for the exam]

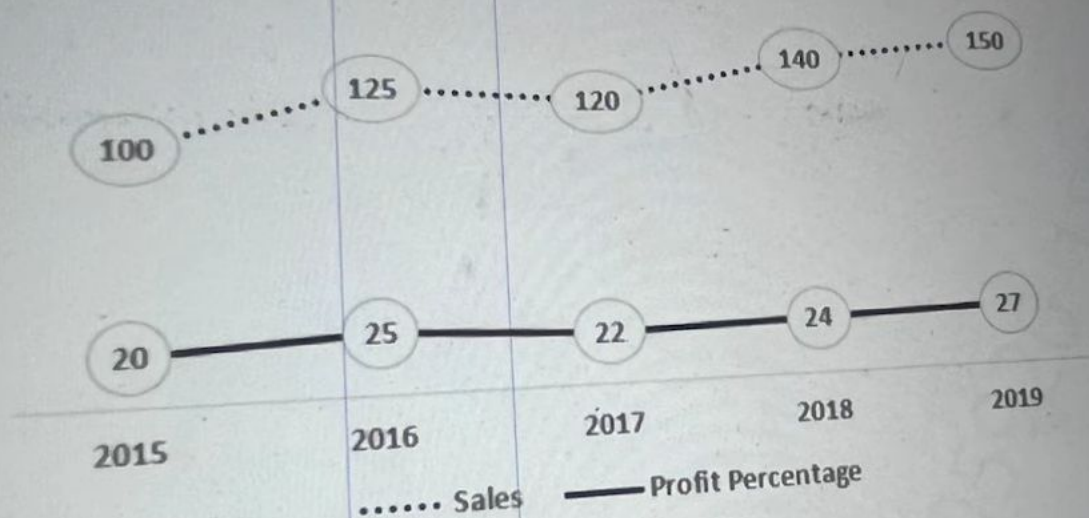
How many students of class 8 failed in the annual exam?

- Ops:**
- A. 60
 - B. 72
 - C. 82
 - D. 108

lost to her contestant by 10,000 votes. All the votes

Q 22. The following line graph gives the sales and profit percentage of a company across five years from 2015. The value of sales in 2015 have been taken as 100. All values in the succeeding years are indexed to the value in 2015. Study the graph carefully and answer the questions that follow.

Sales and profit percentage of a company across 5 years



$$\text{Profit percentage} = \frac{\text{Profit}}{\text{Expenses}} \times 100$$

$$\text{Sales} = \text{Expenses} + \text{profit}$$

If the value of sales in 2015 were 400 million dollars, then what were the profit in 2017?

- Ops: A. 100 million dollars
 66 million dollars

