

Question Paper

Class: VII

40 Marks

1. Choose the correct answer.

(10 × 1 = 10)

a. The ratio of Rs 5 to 350 paise in the simplest form is _____.

- i. 7 : 10 ii. 10 : 7 iii. 5 : 350 iv. 500 : 350

b. If $3 : x :: 15 : 25$, then the value of x is _____.

- i. 5 ii. 3 iii. 20 iv. 15

c. A If 2.5 kg of sugar costs Rs 100, then the cost of 1 kg of sugar is Rs _____.

- i. 50 ii. 40 iii. 30 iv. 20

d. Rohan got 35 marks out of 50 marks. What is his percentage marks?

- i. 35% ii. 50% iii. 70% iv. 80%

e. 40% can be written in fraction form as _____.

- i. $\frac{3}{5}$ ii. $\frac{2}{5}$ iii. $\frac{2}{4}$ iv. $\frac{4}{5}$

f. If CP = Rs 100 and SP = Rs 120, then the profit percentage is _____.

- i. 10% ii. 20% iii. 30% iv. 40%

g. If P = Rs 1500, R = 5% and T = 3 years, then SI is Rs _____.

- i. 175 ii. 150 iii. 200 iv. 225

h. If one of the complementary angles measures 30° , then the other angle measures _____.

- i. 60° ii. 50° iii. 150° iv. 160°

i. The sum of the measures of the angles at a point is _____.

- i. 180° ii. 90° iii. 270° iv. 360°

j. Mean of 4, 7, 9, 14 and 16 is _____.

- i. 10 ii. 20 iii. 25 iv. 50

2. Fill in the blanks.

(5 × 1 = 5)

- a. 25% of 1 kg, in grams, is equal to _____ g.
- b. If 1, 3, 5 and 15 are in proportion, then 1 and 15 are called _____.
- c. If Shruti's weight is increased from 50 kg to 60 kg, then the percentage increase = _____.
- d. The sum of the angles of a linear pair is _____.
- e. Mode of 2, 5, 2, 7, 9, 2, 4, 5, 4 and 2 is _____.

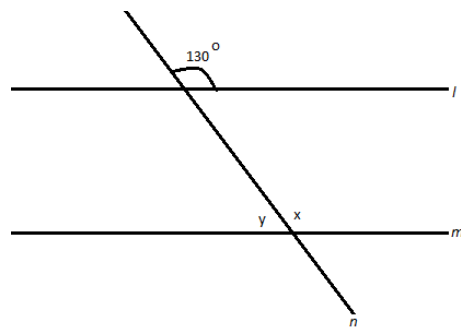
3. Solve the following.

(5 × 2 = 10)

- a. If 15 m of cloth is required to stitch 5 shirts, then how many shirts can be stitched with 45 m of cloth?

- b. Madan bought an old motorcycle for Rs 18000 and spent Rs 2000 on its repair. If he sold it for Rs 22000, find his profit percentage.

- c. In the following figure, line l is parallel to line m . Find the values of x and y .



d. Find the range of the following data.

45, 87, 12, 65, 49, 90, 32, 28

e. Find the median of the following data.

5, 8, 54, 24, 15, 34, 45, 29, 36

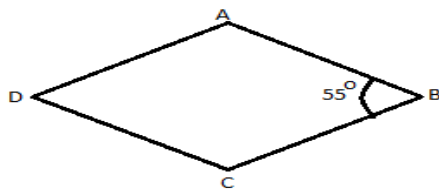
4. Do as instructed.

(5 × 3 = 15)

a. A car requires 3 litres of petrol to cover 60 km. Will 10 litres of petrol be sufficient to cover 220 km?

b. The height of a boy is 126 cm at the end of a year. His height increased by 5% during the year. Find his height at the beginning of the year.

c. In the following figure, ABCD is a parallelogram in which $AB \parallel DC$ and $BC \parallel AD$. If angle B measures 55° , find the measure of angles A, C and D.



d. Find the mean of the first eight prime numbers.

e. The following table shows the favourite sport of the students of a class.

Sport	Cricket	Football	Volleyball	Basketball	Hockey
Number of students	20	15	10	15	5

Represent the above data using a bar graph.