

NAAHAR PUBLIC SCHOOL(CBSE)SENIOR SECONDARY
ACADEMIC YEAR 2022-2023
PERIODIC TEST III

SUB: MATHS
GRADE: VIII
SUBJECT TEACHER: MRS.SHEELA

MARKS : 50
DURATION:90 MINS
DATE:19.11.22

I.Choose the best answer:

8 X 1 = 8

1. Which of the following numbers is a cube number ?
(a) 1000 (b) 400 (c) 100 (d) 600.
2. Which of the following is correct?
I. Cube of a negative number is always positive.
II. Cube of a negative number is always negative.
III. Cube of a negative number may be positive or negative.
IV. All of the above
3. The prime factorization of 64 is:
a) $2 \times 2 \times 2$ b) $4 \times 4 \times 4$ c) $8 \times 8 \times 8$ d) None of the above
4. The ratio 4 : 25 converted to percentage is
(a) 8% (b) 4% (c) 16% (d) 25%.
5. The ratio of 50 paise to Rs. 1 is
(a) 1 : 2 (b) 2 : 1 (c) 1 : 1 (d) 1 : 5.
6. What would be 25%, when we represent it as a fraction?
(a) $\frac{1}{2}$ (b) $\frac{1}{4}$ (c) $\frac{1}{5}$ (d) $\frac{1}{6}$
7. A _____ is a bar graph that shows data in intervals.
(a)Bar-graph (b) Pie-chart (c)Histogram (d) Line Graph
8. The point (0,0) lies at:
(a)x-axis (b)y-axis (c)origin (d)None of the above

II. Fill in the blanks:

7 x 1 = 7

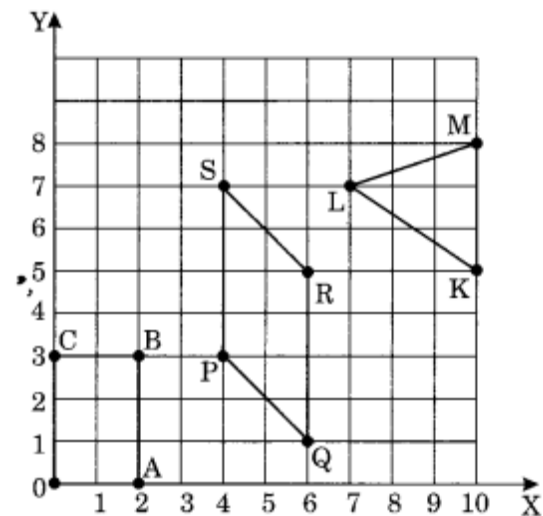
9. The cube of 2a is _____.
10. A discount is calculated by _____.
11. A profit or profit loss is calculated by _____.
12. Simple interest = _____.
13. Amount = _____.
14. A _____ graph is used to compare parts of a whole.
15. A _____ graph displays data that changes continuously over periods of time.

III. Three marks: (any 5)

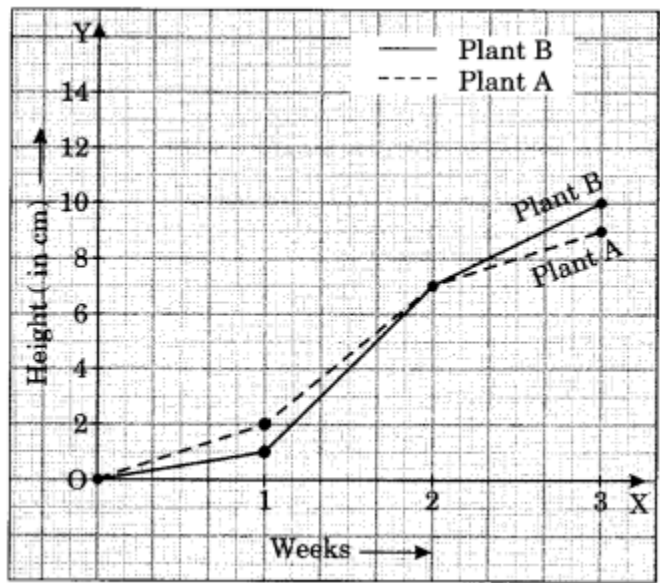
5x 3 = 15

16. Find the smallest number by which 243 must be multiplied to get a perfect cube.
17. In a Laboratory, the count of bacteria in a certain experiment was increasing at the rate of 2.5% per hour. Find the bacteria at the end of 2 hours if the count was initially 5,06,000.
18. The price of a TV is Rs. 13,000. The sales tax charged on it is at the rate of 12%. Find the amount that Vinod will have to pay if he buys it.

19. Write the coordinates of the vertices of each of these adjoining figures.



20. Check Whether 128 is a perfect cube or not ?
- 21 For an experiment in Botany, two different plants, plant A and plant B, were grown under similar laboratory conditions. Their heights were measured at the end of each week for 3 weeks. The results are shown by the following graph.



- (a) How high was plant A after (i) 2 weeks (ii) 3 weeks was 9 cm.
- (b) How high was plant B after (i) 2 weeks (ii) 3 weeks
- (c) How much did plant A grow during the 3rd week?

IV. Five marks:

$4 \times 5 = 20$

- 22.If 60% of people in a city like a cricket, 30% like football and the remaining like other games, then what per cent of the people like other games? If the total number of people are 50,00,000 find the exact number who like each type of game.
23. The population of a place increased to 54,000 in 2003 at a rate of 5% per annum.
- (i) Find the population in 2001.
- (ii) What would be its population in 2005?
- 24.Use the tables below to draw linear graphs.
- The number of days a hill side city recovered show in different years.

Year	2003	2004	2005	2006
Days	8	10	5	12

25. Draw the graph for the following: Is it a linear graph.

Side of square (in cm)	2	3	4	5	6
Area (is cm ²)	4	9	16	25	36

