

Class: VIII

Full Marks- 25
Subject: Mathematics
All questions are compulsory

Time:1 HRS

Ques. 1: Fill in the blanks: -

1 x 5 =5

1. Area of triangle = $\frac{1}{2} \times (\quad) \times (\quad)$
2. Area of 11 gm = $\frac{1}{2} \times (\quad) \times (\quad)$
3. Area of trapezium = $\frac{1}{2} \times (\quad) \times (\quad)$
4. The parallel sides of a trapezium are 14 cm and 18 cm and the distance between them is 8cm the area of the trapezium is _____ cm^2
5. Area of Rhombus = $\frac{1}{2} \times (\quad) \times (\quad)$

Ques. 2: Multiple choice question: -

1 x 5 =5

1. The total surface area of a cube is 150 cm^2 its volume is ?
a. 216 cm^3 b. 125 cm^3 c. 64 cm^3 d. 1000 cm^3
2. The diagonal of a cube is $9\sqrt{3} \text{ cm}$ long its total surface is ?
a. 243 cm^2 b. 486 cm^2 c. 324 cm^2 d. 448 cm^2
3. The base of a triangle is 14cm and its height is 8 cm. the area of a triangle is?
a. 112 cm^2 b. 56 cm^2 c. 122 cm^2 d. 66 cm^2
4. How many diagonals are there in a pentagon?
a. 5 b. 7 c. 6 d. 10
5. How many diagonals are there in a hexagon?
a. 6 b. 8 c. 9 d. 10

Ques. 3: Define following

1 x 5 = 5

1. Rhombus
2. Square
3. Trapezium
4. Rectangle

Ques. 4: Answer these questions?

4 x 5= 20

1. Find the volume, curved surface area and total surface area of cylinder whose radius = 7 cm and height = 50 cm.
2. Find the volume, lateral surface area and the total surface area of the cuboid whose dimensions are length = 22 cm, breadth= 12 cm and height = 7.5 cm respectively.
3. Find the area of a trapezium whose parallel sides are 24 cm and 20 cm and the distance between them is 15 cm.
4. ABCD is a parallelogram in which $\angle A = 110^\circ$ find the measure of each of the angles $\angle B$, $\angle C$ and $\angle D$

Ques. 5: Answer these questions (Any Eight)?

5 x 8 = 40

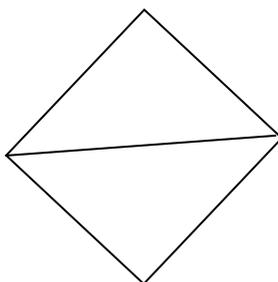
1. A bag contains 4 white and 5 blue balls. They are mixed thoroughly and one ball is drawn at random. What is the probability of getting (1) a white ball (2) a blue ball?

2. The marks of a student in different subjects are given below.

Subject	Hindi	English	Math	Science	Social Science
Marks	43	56	80	65	50

3. The radius and height of a cylinder are in the ratio 7:2 if the volume of the cylinder is 8316 cm^3 . Find the total surface area of the cylinder.

4. In the given figure, ABCD is a quadrilateral in which AC = 24 cm and B lies on AC such that $AB = 8 \text{ cm}$ and $DM = 7 \text{ cm}$, find the area of ABCD



5. The angles of a quadrilateral are in the ratio 3: 5: 7: 9, find the measure of each of these angles.

6. A can do a piece of work in 24 hours while B alone can do it in 16 hours. If A, B and C working together can finish it in 8 hours. In how many hours can C alone finish the work?

7. 6 cows can graze a field in 28 days. How long would 14 cows take to graze the same field?

8. Find out amount and compound interest while $P = 6000$, $r = 90\%$ and time taken 2 years.

9. Manjit bought an Iron safe for Rs. 5580 and paid Rs 170 for its transportation then, he sold it for Rs. 6440. Find the gain percent earned by him.

10. A man saves 18% of his monthly income. If he saves 1890 per month what is his monthly income.

11. Construct a quadrilateral ABCD in which $AB = 4.8 \text{ cm}$, $BC = 4.3 \text{ cm}$, $CD = 3.6 \text{ cm}$ and $AD = 4.2 \text{ cm}$ and diagonal $AC = 6 \text{ cm}$