

SECTION-A

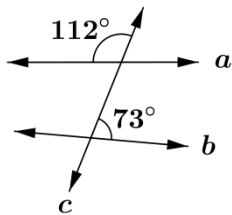
(Each question carries 1 mark)

1. Find the value of $\frac{4}{9} \div \frac{8}{6}$
2. Find the value of $(-36) \div 4$
3. Find the supplement of 35°
4. What is mode?
5. Evaluate: 5^4
6. Express $\frac{24}{-28}$ as rational number in standard form.

SECTION-B

(Each question carries 2 marks)

7. Write a pair of negative integers
(a) whose sum is -18 ,
(b) whose difference is -5
8. In the figure given below, find whether a is parallel to b or not:



9. Find the area of triangle whose height is 4 cm and base is 13.5 cm.
10. If $\frac{-5}{7} = \frac{x}{28}$, find the value of x .
11. (a) The radius of the sun is 695500000 m. Express the radius in standard form.
(b) Write the following number in expanded form using exponents: 5008503
12. A dice is tossed 80 times and the number 3 is obtained 14 times. Find the probability of getting the number 3.

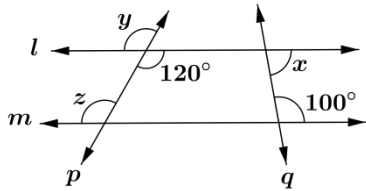
SECTION-C

(Each question carries 3 marks)

13. A bucket contains $24\frac{3}{4}$ liters of water. How many jugs of capacity $\frac{3}{4}$ liter can be filled from the bucket to get it emptied?
14. An iron rod was heated to 200°C and left for cooling. Every minute it cools down by 25°C . What will be the temperature of the iron rod after half an hour?

15. Add the product of (-16) and (-9) to the quotient of (-132) by 6.

16. In the figure given below, $l \parallel m$. Find the values of x , y and z .



17. The diameter of a wheel of a cycle is 70 cm. It moves slowly along a road. How far will it go in 24 complete revolutions? (find the distance in meters)

OR

A wire is looped in the form of a circle of radius 28 cm. It is rebent into a square form. Find the area of the square formed.

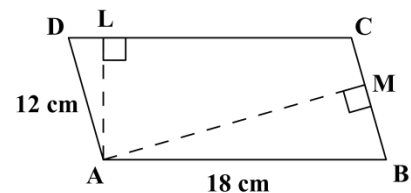
18. A rectangular park is 45 m long and 30 m wide. A path 2.5 m is constructed outside and around the park. Find the area of the path.

OR

Find the area of a square with side 68.2 m. By how many square meters does its area fall short of a hectare?

19. Write three rational numbers between $\frac{-1}{7}$ and $\frac{-1}{8}$.

20. In the figure given alongside, in the parallelogram ABCD, $AB = 18$ cm, $AD = 12$ cm. AL is perpendicular to DC and AM is perpendicular to BC. If $AL = 6.4$ cm, find the length of AM.



21. The weight (in kg) of 7 students of class VII are given below:

48.5, 50, 54.5, 46.5, 63, 47, 40.5

(a) What is the mean weight?

(b) Find the median.

22. Express the following as a product of the exponents of prime numbers: 225×625

SECTION-D

(Each question carries 4 marks)

23. A car covers a distance of 22.8 km in 2.4 liters of petrol. How much distance will it cover in 4.2 liters of petrol?

24. In a class test 3 marks are given for every correct answer, (-2) marks for every incorrect answer and no marks for not attempting the questions.

(a) Mita answered some questions and scored 28 marks, though she got 12 correct answers. Calculate the number of incorrect answers given by her.

(b) Sandeep answered all the questions. He got 16 correct answers and 4 answers incorrect. Find his total score.

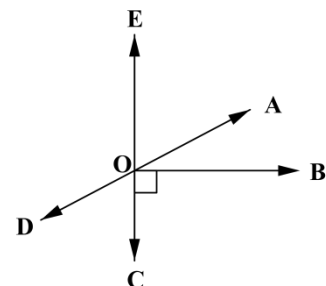
25. In the figure given alongside, lines AD and CE intersect at O. BO is perpendicular to CE.

(a) Name a pair of adjacent angles.

(b) Name a pair of supplementary angles.

(c) Name a pair of vertically opposite angles.

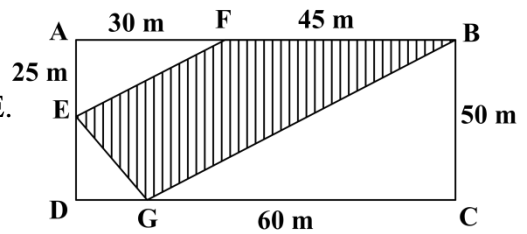
(d) Which pair of angles is complementary?



26. In the figure given alongside, ABCD is a rectangle.

AF = 30 m, FB = 45 m, BC = 50 m, CG = 60 m,

AE = 25 m. Find the area of the shaded portion FBGDE.



OR

A rectangular lawn is 30 m by 20 m. It has two roads each 2 m wide running in the middle of it, one parallel to the length and the other to the breadth. Find the area of the roads.

27. A square piece of plywood has side 12 cm. A parallelogram with base 6 cm and height 5 cm is cut from the piece. Find the area of the remaining piece. Also find the cost of polishing the parallelogram piece if the rate of polishing is ` 15 per sq. cm.

28. The data given below shows the number of motor cycles of the same brand sold by two dealers in the first three months of a year. Represent the data as double bar graph.

	Jan	Feb	Mar
Dealer 1	8	12	6
Dealer 2	9	16	10

29. Simplify: $\left(\frac{6}{55} \div \frac{9}{-22}\right) - \left(\frac{26}{125} \times \frac{10}{-39}\right)$

30. Simplify using laws of exponents: $\frac{216 \times (2^2)^2 \times 5^4}{2^7 \times 3^3 \times 25}$



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