

18. A right circular cylinder just encloses a sphere of radius 7 cm.

- Find the curved surface area of the cylinder and the sphere.
- What is the ratio of these areas?

OR

The floor of a rectangular hall has a perimeter 250 m. If the cost of painting the four walls at the rate of ₹ 10 per m^2 is ₹ 15000, find the height of the hall.

[Hint : Area of the four walls = Lateral surface area]

19. Following is the distribution of ages (in years) of teachers working in a primary school :

Age (in years)	Number of teacher
21-25	70
26-30	110
31-35	165
36-40	320
41-45	200
46-50	135

- Determine the class limit of third class interval.
- Determine the class size.
- Determine the class marks of fifth class intervals.

Monthly income (in ₹)	Vehicles per family			
	0	1	2	Above 2
Less than 7000	10	160	25	0
7000 – 10000	0	305	27	2
10000 – 13000	1	535	29	1
13000 – 16000	2	469	59	25
16000 or more	1	579	82	88

Suppose a family is chosen. Find the probability that the family chosen is

- earning ₹10000 – 13000 per month and owning exactly 2 vehicles.
- earning ₹16000 or more per month and owning exactly 1 vehicle.
- earning less than ₹7000 per month and does not own any vehicle.

- How many teachers are in the age group 26 to 45 years.

OR

If the diagonals of a parallelogram are equal, then show that it is a rectangle.

20. Draw the graphs of each of the following linear equations in cartesian plane

- $x - 2 = 0$
- $x + 5 = 0$
- $2x + 4 = 3x + 1$

OR

Draw the graph of the line $x - 2y = 3$.

21. The inner diameter of a circular well is 3.5 m. It is 10 m deep. Find

- its inner curved surface area,
- the cost of plastering this curved surface at the rate of ₹40 per m^2 .

22. The angle of a quadrilateral are in the ratio 2 : 3 : 7 : 6. Find the measure of each angle of the quadrilateral.

23. BD is one of the diagonals of a quadrilateral ABCD. AM and CN are the perpendiculars from A and C, respectively, on BD. Show that

$$\text{ar (quad. ABCD)} = \frac{1}{2} \text{BD} \cdot (\text{AM} + \text{CN})$$

24. An organisation selected 2400 families at random and surveyed them to determine a relationship between income level and the number of vehicles in a family. The information gathered is listed in the table below:

SECTION - D

DIRECTIONS : Question numbers 25 to 34 carry 4 marks each.

25. Prove that the line joining the mid-points of the diagonals of a trapezium is parallel to each of the parallel sides and is equal to half of the difference of these sides.

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Daniela Niemeyer



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