

- 18.** The area of a parallelogram is 60 cm^2 and one of its altitude is 5 cm. The length of its corresponding side is
(a) 12 cm (b) 6 cm (c) 4 cm (d) 2 cm
- 19.** The perimeter of a trapezium is 52 cm and its each non-parallel side is equal to 10 cm with its height 8 cm. Its area is
(a) 124 cm^2 (b) 118 cm^2 (c) 128 cm^2 (d) 112 cm^2
- 20.** Area of a quadrilateral ABCD is 20 cm^2 and perpendiculars on BD from opposite vertices are 1 cm and 1.5 cm. The length of BD is
(a) 4 cm (b) 15 cm (c) 16 cm (d) 18 cm
- 21.** A metal sheet 27 cm long, 8 cm broad and 1 cm thick is melted into a cube. The side of the cube is
(a) 6 cm (b) 8 cm (c) 12 cm (d) 24 cm
- 22.** Three cubes of metal whose edges are 6 cm, 8 cm and 10 cm respectively are melted to form a single cube. The edge of the new cube is
(a) 12 cm (b) 24 cm (c) 18 cm (d) 20 cm
- 23.** A covered wooden box has the inner measures as 115 cm, 75 cm and 35 cm and thickness of wood as 2.5 cm. The volume of the wood is
(a) $85,000 \text{ cm}^3$ (b) $80,000 \text{ cm}^3$ (c) $82,125 \text{ cm}^3$ (d) $84,000 \text{ cm}^3$
- 24.** The ratio of radii of two cylinders is 1: 2 and heights are in the ratio 2:3. The ratio of their volumes is
(a) 1:6 (b) 1:9 (c) 1:3 (d) 2:9

73. A bicycle wheel makes 500 revolutions in moving 1 km. Find the diameter of the wheel.

So, required height = 0.2 m

Example 8 : Find the area of a rhombus whose one side measures 5 cm and one diagonal as 8 cm.

74. The following chart gives the growth in height in terms of percentage of full height of boys and girls with their respective ages.

Age (in years)	8	9	10	11	12	13	14	15	16	17	18
Boys	72%	75%	78%	81%	84%	88%	92%	95%	98%	99%	100%
Girls	77%	81%	84%	88%	91%	95%	98%	99%	99.5%	100%	100%

Draw the line graph of above data on the same sheet and answer the following questions.

- (a) In which year both the boys and the girls achieve their maximum height?
- (b) Who grows faster at puberty (14 years to 16 years of age)?

- 21.** _____ is a reduction on the marked price of the article.
- 22.** Increase of a number from 150 to 162 is equal to increase of _____ per cent.
- 23.** 15% increase in price of an article, which is Rs 1,620, is the increase of Rs _____.
- 24.** Discount = _____ - _____.
- 25.** Discount = Discount % of _____.
- 26.** _____ is charged on the sale of an item by the government and is added to the bill amount.
- 27.** Amount when interest is compounded annually is given by the formula _____.
- 28.** Sales tax = tax % of _____.
- 29.** The time period after which the interest is added each time to form a new principal is called the _____.
- 30.** _____ expenses are the additional expenses incurred by a buyer for an item over and above its cost of purchase.
- 31.** The discount on an item for sale is calculated on the _____.

- 75.** Jyotsana bought a product for Rs 3,155 including 4.5% sales tax. Find the price before tax was added.
- 76.** An average urban Indian uses about 150 litres of water every day.

Activity	Litres per person per day
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Drinking	3
Cooking	4
Bathing	20
Sanitation	40
Washing clothes	40
Washing utensils	20
Gardening	23
Total	150

- (a) What per cent of water is used for bathing and sanitation together per day?
- (b) How much less per cent of water is used for cooking in comparison to that used for bathing?
- (c) What per cent of water is used for drinking, cooking and gardening together?

109. At a toy shop price of all the toys is reduced to 66% of the original price.

(a) What is the sale price of a toy that originally costs Rs 90?

(b) How much money would you save on a toy costing Rs 90?