

Assignment Mensuration

1. Find the area of a parallelogram with base 24 cm and height 16 cm. (a) 262 cm² (b) 384 cm² (c) 192 cm² (d) 131 cm²
2. The length of a rectangular plot is thrice its breadth. If the area of the rectangular plot is 867 sq. m., then what is the breadth of the rectangular plot? (a) 8.5 m (b) 17 m (c) 34 m (d) 51 m
3. The length of a rectangular floor is more than its breadth by 200%. If Rs324 is required to paint the floor at the rate of Rs3 per sq. m., then what would be the length of the floor? (a) 27 m (b) 24 m (c) 18 m (d) 21 m
4. An order was placed for the supply of a carpet whose breadth was 6 m and length was 1.44 times the breadth. What will be the cost of a carpet whose length and breadth are 40% more and 25% more respectively than the first carpet, given that the rate of carpet is Rs45 per sq. m. (a) Rs3642.40 (b) Rs3868.80 (c) Rs4216.20 (d) Rs4082.40
5. What will be the cost of fence of a building around a square plot with area equal to 289 sq ft, if the price per foot of the fence of building is Rs58? (a) Rs3944 (b) 3828 (c) Rs4176 (d) Cannot be determined
6. The area of a square is equal to five times the area of a rectangle of dimensions 125 cm x 64 cm. What is the perimeter of the square? (a) 600 cm (b) 800 cm (c) 400 cm (d) 1000 cm
7. A wire in the form of a circle of radius 3.5 cm is bent in the form of a rectangle whose length and breadth are in the ratio of 6: 5. What is the area of the rectangle? (a) 60 cm² (b) 30 cm² (c) 45 cm² (d) 15 cm²
8. The area of a square is 4096 sq. cm. Find the ratio of the breadth and the length of a rectangle whose length is twice the side of the square and breadth is, 24 cm less than the side of the square (a) 18:5 (b) 7:16 (c) 5:16 (d) 5:32
9. The perimeter of a square is double the perimeter of a rectangle. The area of the rectangle is 480 sq. cm. Find the area of the square. (a) 200 sq cm (b) 72 sq cm (c) 162 sq cm (d) cannot be determined
10. Length of a rectangle is 53 metres, while its breath is 28 metres. Cost of covering it with grass bed is Rs27 sq. metre. Find total expenditure. (a) Rs 40,098 (b) Rs40,048 (c) Rs40,068 (d)Rs40,088
11. Base of a right-angled triangle is 9 cm and its area is 81 sq cm. Find its height. (a) 36 cm (b) 18 cm (c) 27 cm (d) none ofthese
12. Difference between the circumferences of two circles is 132 cm and radius of the smaller circle is 14 cm. Find the radius of the larger circle. (a) 14 cm (b) 21 cm (c) 35 cm (d) none ofthese
13. The ratio of length and breadth of rectangle is 5: 2 respectively. The respective ratio of its perimeter and area is 1: 3 (irrespective of the unit). What is the length of the rectangle? (a) 27 units (b) 32 units (c) 21 units (d) none of these

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ADDRESS :- 202, FIRST FLOOR ,KD FLOOR ,MADANPURI ROAD, SECTOR 7, GURUGRAM HARYANA (122001) EMAIL

ADDRESS:- careerlifex@gmail.com PHONE NO. +919140191138

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14. The length of a rectangle, which is 25 cm is equal to the length of a square and the area of the rectangle is 125 square cm less than the area of the square. What is the breadth of the rectangle?

(a) 15 cm (b) 20 cm (c) 12 cm (d) 4 cm

15. The area of a rectangle with 10 cm length is equal to the area of a circle. Find the circumference of the circle. (a) 36 cm (b) 34 cm (c) 26 cm (d) cannot be determined

16. The ratio of length and breadth of a rectangular plot is 71: 16 respectively. The area of the plot is 17324 sq. metres. What is the perimeter of the plot?

(a) 284 m (b) 528 m (c) 264 m (d) 679 m

17. If area of a circular jogging track is 3850 sq metres what is the circumference of the jogging track? (a) 225 m (b) 214 m (c) 220 m (d) 235 m

18. The circumferences of two circles are 264 metres and 352 metres, respectively. Find the difference between the areas of the larger and the smaller circles.

(a) 4192 sq m (b) 4304 sq m (c) 4312 sq m (d) 4360 sq m

19. A 25 cm wide path is to be made around a circular garden having a diameter of 4 metres. Approximate area of the path in square metres is

(a) 3.34 (b) 2 (c) 4.5 (d) 5.5

20. There are two circles of different radii. The area of a square is 784 sq cm and its side is twice the radius of the larger circle. The radius of the larger circle is seven - third that of the smaller circle. Find the circumference of the smaller circle.

(a) 6π cm (b) 8π cm (c) 12π cm (d) 16π cm

1. b 2. b 3. c 4. d 5. a 6. b 7. b 8. c 9. d 10. d 11. b 12. c 13. c 14. b 15. d 16. d 17. c 18. c 19. a 20. c

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