

Mensuration: Worksheet -4

1. A square and an equilateral triangle have equal perimeters. If the diagonal of the square is $6\sqrt{2}$ cm, the area of the triangle is _ _ _
[]
a) $16\sqrt{2}$ cm² b) $16\sqrt{3}$ cm² c) $12\sqrt{2}$ cm² d) $12\sqrt{3}$ cm²
2. If the diagonals of a rhombus are 24 cm and 10cm then the perimeter of the rhombus will be _ _ _ _ _
[]
a) 68 cm b) 60 cm c) 50 cm d) 52 cm
3. The area of a parallelogram is 70 cm² and its altitude is 7cm then the perimeter of a rectangle of equal area standing on the same base is
[]
a) 17 cm b) 34 cm c) 28 cm d) 40 cm
4. Three squares have perimeters of 12m, 20m and 24 m respectively. If a rectangle is constructed whose area is equal to the combined area of the three squares such that its width is 7m, then the length of the rectangle is _ _ _ _ _
[]
a) 6 m b) 8 m c) 10 m d) 12 m
5. The area of a rectangle is 150 sq.m. and its perimeter is 50 m. Then its dimensions are :
[]
a) 20, 5 b) 30, 5 c) 10, 15 d) none
6. If each side of a rectangle is increased by 50% then its area will be increased by
[]
a) 150% b) 120% c) 125% d) no change

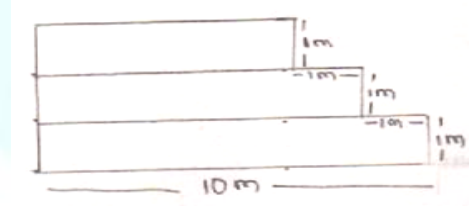


7. A lawn 120 m by 80 m is surrounded by a path of 3m width. The area of the path is []

- a) 1164 m² b) 1236 m² c) 8364 m² d) 10836 m²

8. The area of the given figure is _ _ _ _ _ []

- a) 28 m² b) 27 m²
c) 29 m² d) 30 m²



9. If a rectangle of sides 5 cm and 15 cm is to be divide into three squares of equal area then the side of the squares will be []

- a) 4 cm b) 6 cm c) 7 cm d) none

10. The area of a quadrilateral ABCD in which AB = 3 cm; BC = 4 cm; CD = 6 cm; DA = 5 cm and diagonal AC = 5 cm is []

- a) 15 cm² b) 16 cm² c) 17 cm² d) 18 cm²

11. If the length and diagonal of a rectangle are 20 cm and 25 cm then its area is _ _ _ _ _ []

- a) 200 cm² b) 250 cm² c) 300 cm² d) 450 cm²

