

Chapter – 10

Mensuration

Worksheet – 2

1. A triangle has sides of 3 m, 4 m and 5 m respectively, what will be its perimeter?
  - a. 10 m
  - b. 11 m
  - c. 12 m
  - d. 13 m
2. A triangle has perpendicular of length 4 m and base 5 m. Calculate its area?
  - a.  $12 \text{ m}^2$
  - b.  $15 \text{ m}^2$
  - c.  $10 \text{ m}^2$
  - d.  $20 \text{ m}^2$
3. A square has one side of 6 m. What will be its perimeter?
  - a. 12 m
  - b. 16 m
  - c. 20 m
  - d. 24 m
4. A square has a side of 5 m. What will be its area?
  - a.  $25 \text{ m}^2$
  - b.  $21 \text{ m}^2$
  - c.  $20 \text{ m}^2$
  - d.  $26 \text{ m}^2$
5. A parallelogram has one side 6 m long and the other 4 m long. What will be its perimeter?
  - a. 14 m
  - b. 16 m
  - c. 18 m
  - d. 20 m
6. One side of an equilateral triangle is 5 m. What will be its perimeter?
  - a. 10 m
  - b. 15 m
  - c. 16 m

- d. 21 m
- 7. A regular pentagon has one side of 7 m. What will be its perimeter?
  - a. 14 m
  - b. 21 m
  - c. 28 m
  - d. 35 m
- 8. Find the length of diagonal of a rectangle whose length is 4 m and breadth is 3 m?
  - a. 4.5 m
  - b. 5 m
  - c. 6 m
  - d. 7.5 m
- 9. A rectangular cake of sides 20 cm and 16 cm is cut from the sides to make a square. What will be the length of one side of the biggest possible square cake made out of it?
  - a. 18 cm
  - b. 17 cm
  - c. 19 cm
  - d. 20 cm
- 10. Ramesh has a square garden of side 40 m long. He wants to make it a rectangular garden of sides 60 m and 40 m respectively. How more area would he need for the same?
  - a.  $400 \text{ m}^2$
  - b.  $800 \text{ m}^2$
  - c.  $1200 \text{ m}^2$
  - d.  $1600 \text{ m}^2$
- 11. Find the side of the square whose area is  $36 \text{ m}^2$ ?
- 12. Find the sum of perimeter of an equilateral triangle and regular hexagon, in which length of one side of pentagon is 16 m and of hexagon is 17 m?
- 13. The perimeter of a regular hexagon is 216.6 m. How long is its each side in centimeters (cm)?
- 14. A piece of wire is 60 cm long. What will be the length of each side if the wire is used to form a:

- a. Square
- b. An equilateral triangle
- c. A regular pentagon

15. Two sides of a triangle are 21.28 cm and 16.12 cm, the perimeter of the triangle is 60 cm. What is the length of the third side of the triangle?

16. A rectangular path of length 4 m and width 2 m needs to be paved around a square ground whose one side is 10 m long. What will be the total area of the rectangular paved path?

17. Find the cost of clearing a piece of land at ₹6.25 per meter square if the length and breadth of the field are 17.75 m and 16.15 m?

18. Find the cost of grazing a grassland at the cost of ₹20 per meter square if length and width of the ground are 16 m and 14 m respectively?

19. A boundary wall needs to be constructed around a rectangular ground which has sides of 50 m and 20 m respectively. If the width of the wall is 50 cm, find the cost of constructing the wall at ₹10 per meter square?

20. Cost of paving a path with concrete is ₹30 per meter square. If a rectangular path with sides 30 m and 15 m needs to be paved, then what will be the cost of pavement?