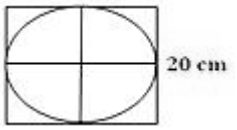
1. 6. If it costs \$1600 to fence a rectangular park of length 20 m at the rate of \$25 per m^2, find the breadth of the park and its perimeter. Also, find the area of the field.
2. How many rectangles can be drawn with 38 cm as perimeter? Also, find the dimensions of the rectangle whose area will be maximum.
3. The length of a rectangular wooden board is thrice its width. If the width of the board is 120 cm, find the cost of framing it at the rate of \$5 for 20 cm.
4. A square metallic frame has a perimeter 208 cm. It is bent in the shape of a circle. Find the area of the circle.
5. From a circular sheet of radius 18 cm, two circles of radii 4.5 cm and a rectangle of length 4 cm and breadth 1 cm are removed; find the area of the remaining sheet.
6. Find the area of a circle inscribed in a square of side 20 cm.



7. If it costs \$2400 to fence a square field at the rate of \$6 per m, find the length of the side and the area of the field.
   Perimeter = (Total cost)/(Cost per m^2)
8. A wire in the shape of rectangle whose width is 22 cm is bent to form a square of side 31 cm. Find the length of the rectangle. Also, find which shape encloses more area.
9. The area of a square field is 81 hectares. Find the cost of fencing the field with a wire at the rate of \$2.25 per m.
10. A square lawn is surrounded by a path 2 m wide. If the area of the path is 240 m^2, find the area of the lawn.
11. A path 5 m wide runs along inside a rectangular field. The length of the rectangular field is three times the breadth of the field. If the area of the path is 500 m^2, then find the length and breadth of the field.
12. A strip of width 3 cm is cut out all round from a sheet of paper with dimensions 30 cm × 20 cm. Find the area of the strip cut out and the area of the remaining sheet.

13. Find the area of a triangle having .....
    (a) base = 18 cm height = 12 cm
    (b) base = 6.5 m height = 5 cm
    (c) base = 7.2 m height = 7 dm
    (d) base = 10.5 m height = 8 mm

14. Find the height of a triangle whose .....
    (a) Area = 420 cm^2 base = 60 cm
    (b) Area = 1500 mm^2 base = 7.5 cm
    (c) Area = 64 dm^2 base = 1.6 m

15. Find the base of a triangle whose .....
    (a) Area = 300 cm^2 height = 7.5 cm
    (b) Area = 3.6 dm^2 height = 90 cm
    (c) Area = 3.6 m^2 height = 1.8 m

ANSWER

1. b =12 m, P = 64 m, A = 240 m^2

2. 9 if l, b ∈ W max area 90 cm^2, l, b = 10, 9

3. $240

4. $3441\frac{5}{11}$ cm^2

5. 887 cm^2

6. 314.2 cm^2

7. 100 m, 10000 m^2

8. l = 40 cm, square

9. $2700

10. 210.25 m^2

11. L = 45 m, b = 15 m

12. 264 cm^2, 336 cm^2

13. (a) 108 cm^2 (b) 0.1625 m^2 (c) 2.52 m^2 (d) 0.0420 m^2

14. (a) 14 cm (b) 40 mm (c) 8 dm

15. (a) 80 cm (b) 0.8 dm (c) 4 m