Perimeter and Area – Chapter 11/CBSE Class 7 Mathematics

Extra Questions for Practice/Important Questions/Worksheet

Answer the following:

1. Find the area of a parallelogram whose base is 8cm and height 3cm?

2. Find the area of a triangle whose base is 6cm and height 2cm?

3. If the circumference of a circular disc is 44cm, find its radius?

4. Find the circumference of a circle of radius 14cm?

5. Find the area of a circle whose radius is 7cm?

6. If the area of a triangle is 64$cm^2$and height is 4cm, find the base of the triangle?

7. Find the area of a triangle whose base is 20cm and corresponding altitude is 5cm?

8. Find the circumference of a circle whose diameter is 28cm?

9. If the area of a circle is 154cm^2, find its circumference?

10. If the area of a parallelogram is 36cm^2 and base is 6cm, find height?

11. Find the radius of a circle whose circumference is 66cm?

12. Find the circumference of a circle whose diameter is 49m?

13. The diameter of a circle is 56cm. Find its area?

14.If the area of a parallelogram is 32cm^2 and base is 4cm, find its height?

15. The area of a square garden is 1600m^2. Find the side of the garden?

16. The area of a rectangular field is 3200m^2.If the breadth of the field is 40m, find its length?

17. Area of a triangle is -------

18. Circumference of a circle is ----------

19. Area of a circle is ---------

20. Area of a parallelogram is --------

ANSWERS:

1. Area = bh = 8 x 3 = 24 sq. cm

2. Area = $\frac{1}{2}$ bh = $\frac{1}{2} \times 6 \times 2 = \frac{12}{2}$ = 6 sq.cm

3. C = 2πr

44 = 2$\times \frac{22}{7} \times r$

r = $\frac{44 \times 7}{2 \times 22}$ = 7cm

4. C = 2πr = 2$\times \frac{22}{7} \times$14 = 88cm

5. A = $\pi r^2 = \frac{22}{7} \times 7 \times 7$ = 154 sq.cm

6. A = 64cm^2

Height h = 4cm

Base b = $\frac{2Area}{h} = \frac{2 \times 64}{4}$ = 32cm

7. A = $\frac{1}{2} \times 20 \times 5 = \frac{100}{2} = 50cm^2$

8. C = $2\pi r = 2 \times \frac{22}{7} \times 14 = 88cm$

9. A = $\pi r^2 = 154$

$\frac{22}{7} \times r^2 = 154$

$r^2 = \frac{7 \times 154}{22} = 49$

r = 7cm

C = $2\pi r = 2 \times \frac{22}{7} \times 7 = 44cm$

10. A= bh

h = $\frac{Area}{b} = \frac{36}{6} = 6cm$

11. C = $2\pi r$

66 = $2 \times \frac{22}{7} \times r$

r = $\frac{66 \times 7}{2 \times 22} = 10.5cm$

12. C = $2\pi r = \frac{22}{7} \times 49 = 154m$

13. Radius r = 28cm

A = $\pi r^2 = \frac{22}{7} \times 28 \times 28 = 2464cm^2$

14. Height = $\frac{Area}{b} = \frac{32}{4} = 8cm$

15. Area = $1600m^2$

Side = $\sqrt{1600} = 40m$

16. Length = $\frac{3200}{40}$ = 80m

17. $\frac{1}{2}$bh

18. $2\pi r$

19. πr^2

20. bh