

PERIMETER AND AREA

WORKSHEET (BASIC)

STD– 6

1 mark questions

1. Find the perimeter of the square whose side is 2.5 cm.
2. What will be the perimeter of a rectangle whose length is 2m and breadth is 1.5m?
3. Two squares of side 4 cm each are joined together to make a new figure. What is the figure called?
4. Two square stamps of side 1.5 cm are joined together. Find the area required to paste these two stamps ?
5. Four equilateral triangles of side 4.5 cm are joined together to make a figure. Find the perimeter of the new figure ?

2marks questions

6. Length of a rectangular field is 12m and breadth is 8m. Find the perimeter of the rectangular field.
7. A man is running around a square field of side 13.5m. How much distance does he cover ?
8. A piece of string is 80 cm. What will be the length of each side if the string is used to form a square?
9. The area of a rectangular garden 50 m long is 300 sq. m.. Find the width of the garden?
10. The area of a rectangular garden is 2900 sq.m. If its breadth is 29m, find the length of the garden ?
11. If the area of a square is 64sq.cm., then find the length of each side .
12. Find the perimeter of an equilateral triangle of side 9cm.
13. Find the perimeter of a triangle of sides 3cm, 4cm and 5cm.

14. Find the perimeter of an isosceles triangle whose equal sides are 8cm each and third side is of 6cm.
15. Two sides of a triangle are 12cm and 14 cm. If the perimeter of the triangle is 36 cm, find the third side .

3marks questions

16. Cost of fencing a square field is Rs 1200 .If the cost of fencing per metre is Rs 30, find the area of the square field.
17. Which play ground has bigger area? One that measures 50 m by 40 m and another that measures 75 m by 20 m.
18. Find the cost of fencing a rectangular park of length 175m and breadth 50 m at the rate of Rs 15 per metre.
19. What is the length of the wooden strip required to frame a photograph of length and breadth 32 cm and 22 cm?
20. The cost of fencing a square field at Rs 35 per metre is Rs4480. Find the length of each side of the field.
21. If the perimeter of a rectangle is 100cm and its length is 32 m, then find the length of the rectangle.
22. If the length of a rectangle is doubled keeping the breadth same, then what will happen to the area ?
23. What is the perimeter of the square whose area is 225 sq cm?
24. Length of a rectangular field is 220 m and width is 130m. If a man runs around this field 3times, find the distance covered by him?
25. Rahul walks around a square park once and covers 800m. What will be the area of the park ?
26. The area of a rectangular field is 1600 sqm. If the length of the field is 80 m, find the perimeter of the field?

4 marks questions

27. The length of a rectangular field is thrice its breadth. If the perimeter of this field is 800 m , find the length of the field .
28. Gita runs 10 times around a square field of side 55 m and Sita runs 5 times around a rectangular field of length 45 m and breadth 35m. Who covers more distance and by how much ?
29. Ram wants to cover the floor of her bedroom whose length is 5m by 4m by square tiles. If each square tile is of side is 20 cm, then find the number of tiles required to cover the floor ?
30. Perimeter of a square and a rectangle is same.If a side of the square is 15 cm and one side of the rectangle is 18cm, find the area of the rectangle.

PERIMETER AND AREA
STD-6
WORKSHEET (STANDARD)

One mark questions :

- Q1. If the perimeter of a square is 16m, then its area is _____ cm.
- Q2. The area of a rectangle is 20 square cm. If the breadth is 6 cm, then its length is _____ .
- Q3. If the ratio between length and perimeter of a rectangular plot is 1:3, then the ratio between the length and breadth of the plot is _____ .
- Q4. What will happen to the area of a square if its side is tripled?
- Q5. If length of diagonal of a square is 20 cm, then its perimeter is _____ .
- Q6. If length and breadth of rectangle are doubled then its area will be _____ .
- Q7. If each side of a square is halved then its area will be _____ .
- Q8. A rectangular carpet has area 120 square metres and perimeter 46 metres. The length of its diagonal is _____ .

Two marks questions :

- Q9. The sides of a rectangle are in the ratio 5:4. If its perimeter is 72cm. Find its length in metre.
- Q10. The cost of putting a fence around a square field at Rs. 3.50 per meter is Rs. 450. Find the length of each side of the field .
- Q11. If diagonal of a rectangle is thrice its smaller side, then find the ratio of its length and breadth .
- Q12. If the ratio of areas of two squares is 225:256, then find the ratio of their perimeters .

Three marks questions :

Q13. If diagonal of one square is double the diagonal of another square, then find the ratio of their areas .

Q14. Find the area of a rectangle field in hectares whose sides are 75 m and 120m.

Q15. How many envelopes can be made out of a sheet of paper 125cm by 85cm supposing one envelope require a piece of paper of side 17cm by 5cm.

Q16. The carpet for a room 6.6m by 5.6 m cost Rs. 3960 and it was made from a roll 70cm wide. Find the cost of the carpet per metre.

Four marks questions :

Q17. A rectangular field measured 290 m by 210 m. How long will it take for a girl to go two times round the field, if she walks at the rate of 1.5 m/s ?

Q18. A wire is in the shape of a rectangle whose length is 40 cm and breadth is 22 cm .If same wire is bent in the shape of square ,what will be the measure of each side ? Also find which shape encloses more area.

Q19. A room is 9m long, 8m broad and 6.5m high. It has one door of dimension 2m x 1.5m and three windows each of dimension 150cm x 110cm.Find the cost of white washing the walls at Rs. 3.80 per square metre.

Q20. The perimeter of a rectangle is 36cm. What will be length and breadth (In natural numbers) of that rectangle whose area is

I) Maximum. II) minimum .

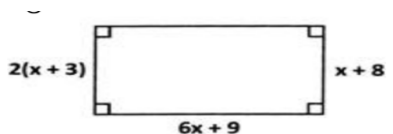
PERIMETER AND AREA
STD-6
WORKSHEET (ADVANCE)

One mark questions :

1. If length and breadth of a rectangular is halved then its area will be _____ .
2. A wire of length 84m is converted into a square then broken to form a rectangle of length 30m. Find the breadth of rectangle.
3. The ratio of lengths of two rectangular fields is 4:3 and the ratio of their breadths is 3:2 . Find the ratio of their areas .
4. The area of a square is $\frac{3}{4}$ times area of a rectangle and the breadth of the rectangle is $\frac{1}{4}$ of its length .Find the area of the square if the sum of length and breadth of the rectangle is 15m.

Two marks questions :

5. The length of the diagonal of a square is 50 .Find the perimeter of a square .
6. A rectangle field is 48 m long and 20m wide .How many triangular flower beds whose sides containing right angle measure 12m and 5m can be laid on this field ?
7. The measurements in this given figure are in the cm. What is its area ?



8. If the perimeter of a square increased by 25% then What is the increase in its area?

Three marks question

9. Find the cost of the flooring the verandah at the rate of Rs. 12 per square metre if the length and breadth of verandah are in the ratio 3:2 and its perimeter is 40m.

Four marks questions

10. A nursery school playground is 160m long 80m wide. In it 80m x 80m is kept for swings and in the remaining portion, there are 1.5m wide path parallel to its width and parallel to its remaining length shown in the figure. The remaining area is covered by grass. Find the area covered by grass.

