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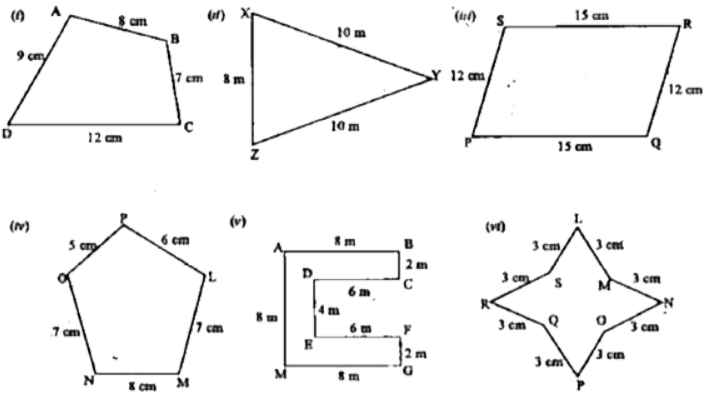
MATHS

BOOKS - SWAN PUBLICATION

PERIMETER AND AREA

Exercise 12 1

1. Find the perimeter of the following shapes,



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2. Find the perimeter of the triangle with sides

: 5 cm, 6 cm and 7 cm

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3. Find the perimeter of the triangle with sides

: 10m, 12 m, 18 m

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4. Find the perimeter of the triangle with sides

: 4.6 cm, 3.2 cm and 5. 8 cm

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5. Find the perimeter of an isosceles triangle with 15 cm as length of equal side and 18 cm as base.

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6. Find the perimeter of a square with side : 16 cm

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7. Find the perimeter of a square with side : 4.8 mm

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8. Find the perimeter of a square with side : 125 cm

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9. Find the perimeter of a square with side : 45 m

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10. Find the perimeter of a square with side : 39 cm

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11. Find the perimeter of a rectangle with:

Length 20 m and breadth 15 m

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12. Find the perimeter of a rectangle with:

Length 25 m and breadth 35 m

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13. Find the perimeter of a rectangle with:

Length 40 cm and breadth 28 cm

14. Find the perimeter of a rectangle with:

Length 18.3 cm and breadth 6.8 cm

15. Find the perimeter of a rectangle with:

Length 0.125 m and breadth 15 cm

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16. Find the perimeter of a regular hexagon with side: 5 cm

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17. Find the perimeter of a regular hexagon with side: 12 cm

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18. Find the perimeter of a regular hexagon with side: 7.2 cm

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19. Find the perimeter of an equilateral triangle with side: 10 cm

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20. Find the perimeter of an equilateral triangle with side: 8 m

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21. Find the perimeter of an equilateral triangle with side: 24 m

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22. Find the perimeter of an equilateral triangle with side. 5.6 m

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23. Find the perimeter of an equilateral triangle with side: 12.1 cm

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24. If the perimeter of a triangle is 48 cm and two sides are 12 cm and 17 cm. Find the third side.

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25. Find the side of an equilateral triangle, if the perimeter is : 45 cm

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26. Find the side of an equilateral triangle, if the perimeter is : 69 mm

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27. Find the side of an equilateral triangle, if the perimeter is : 117 cm

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28. Find the side of a square if the perimeter is: 52 cm

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29. Find the side of a square if the perimeter is: 60 cm

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30. Find the side of a square if the perimeter is:112 cm

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31. The perimeter of rectangular field is 260 m. If its length is 80 m then find its breadth.

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32. The perimeter of a rectangular garden is 140m. If its breadth is 45m then find its length.

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33. The perimeter of a rectangle is 114 cm. If its length is 32 cm then find its breadth in metres.

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34. The side of a triangular field are 15m, 20m and 18m. Find the total distance travelled by a boy in taking 2 complete rounds of this field:

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35. Find the cost of fencing a square field of side 26m at the rate of Rs 3 per metre.

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36. Mani runs around a square park of side 75m. Kush runs around a rectangular park of length 60m and breadth 45m. Who covers less distance ?

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37. Find the cost of framing a rectangular white board with length 240 cm and breadth 150 cm at the rate of 6 per cm.

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38. If length of a rectangle is 'a' units and breadth is 5 units. Find the perimeter of the rectangle.

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39. Fill in the blanks:

The sum of lengths of all sides of a polygon is called.....

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40. Perimeter of Square =.....x side

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41. Perimeter of Rectangle = $2 \times$ (..... + ...)

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42. Side of a square = (.....) $/4$

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43. Perimeter of an equilateral triangle = ...

$\times$ side

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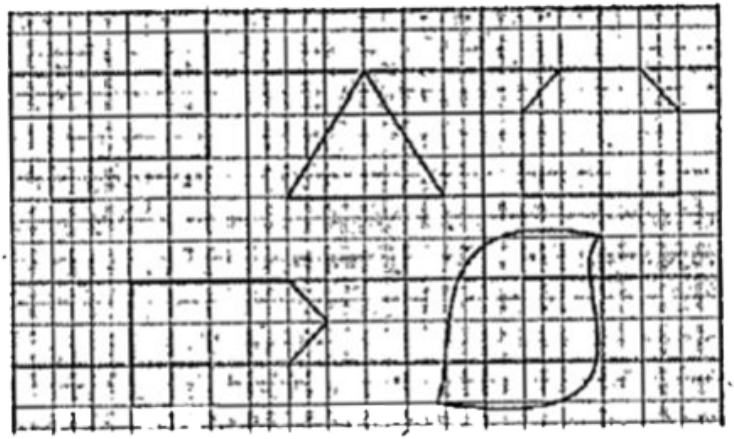
Exercise 12 2

1. Find the approximate area of each of the following figures by counting the number of squares-complete, more than half and exactly half.



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2. Find the area of a rectangle whose :

length = 12 cm, breadth = 16 cm

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3. Find the area of a rectangle whose :

length = 25 m, breadth = 18 m

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4. Find the area of a rectangle whose :

length = 2.7 m, breadth = 45 cm

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5. Find the area of a rectangle whose :

length = 4.2 cm, breadth = 1.5 cm

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6. Find the area of a rectangle whose :

length = 3.8 mm, breadth = 4 mm

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7. Find the area of the square with side : 19 cm

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8. Find the area of the square with side : 24 mm

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9. Find the area of the square with side : 3.5 cm

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10. Find the area of the square with side : 2.6 cm

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11. Find the area of the square with side : 8.2 cm

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12. The area of a rectangle is 216 sq. cm and its length is 12 cm. Find its breadth.

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13. The area of a rectangle is 225 sq. m and its breadth is 9 m. Find its length.

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14. The length and breadth of a ground are 32 m and 24 m. Find the cost of levelling the ground at the rate of Rs 3 per sq. m.

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15. Find the perimeter of a rectangle whose area is 324 sq. cm and it's one side is 36 cm.

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16. The perimeter of a square field is 100m, Find its area.

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17. Area of a rectangle of length 20 cm is 340 sq. cm. Find its perimeter.

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18. A marble tile measure $15cm \times 20cm$. How many tiles will be required to cover a wall of size $4m \times 6m$?

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19. Find tbe cost of levelling the square field of side 75m at the rate of Rs 5 per square metre.

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20. How many stamps of size $2cm \times 1.5cm$ can be pasted on a sheet of paper of size $6cm \times 12cm$?

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21. What will happen to the area of a square if its side is trebled (tripled) ?

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22. What will happen to the area of a rectangle if its length is halved and breadth is doubled ?

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23. What will happen to the area of a square if its side is halved ?

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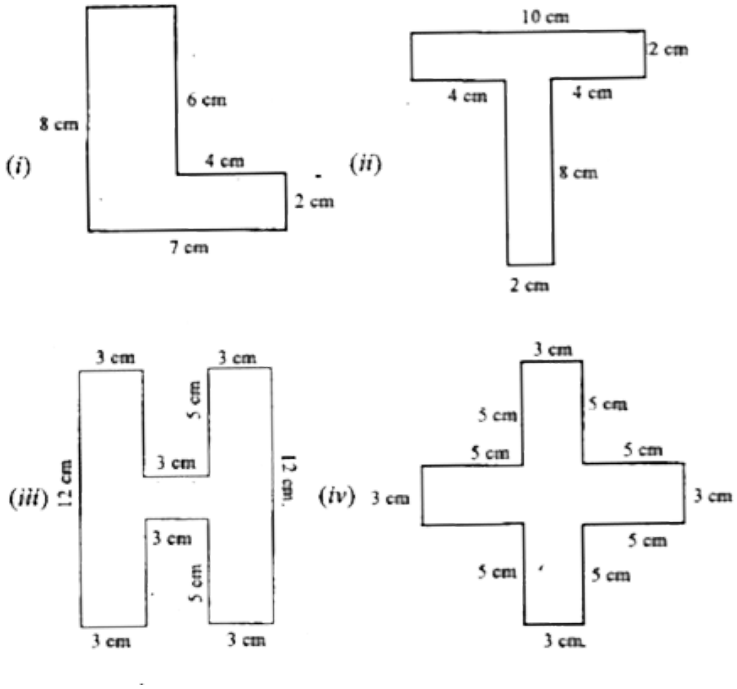
24. Find the area of the following figures by splitting it into rectangles and squares :



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25. Fill in the blanks:

1 square metre =..... sq. cm

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26. Fill in the blanks:

1 square cm =.....sq. mm

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27. Fill in the blanks:

Area of rectangle =.....x.....

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28. Fill in the blanks:

Length =..... / Breadth

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29. Fill in the blanks:

Area of square =.....x.....

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Multiple Choice Questions

1. The outer boundary of a closed figure is called

A. Perimeter

B. Region

C. Area

D. Curve

Answer: A

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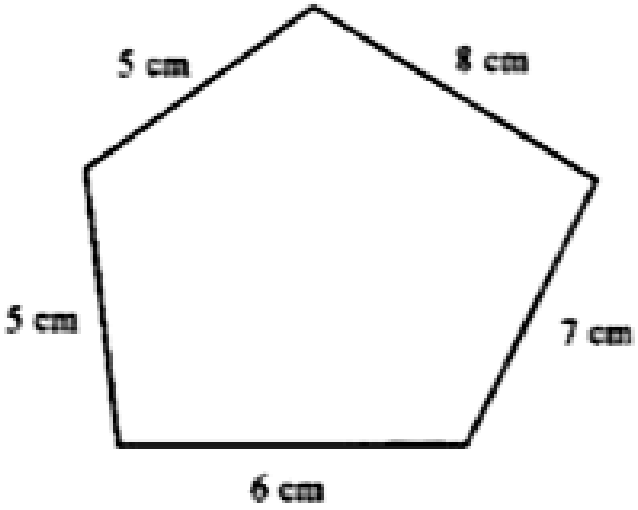
2. Find the perimeter of the given figures :



A. 30 cm

B. 31 cm

C. 32 cm

D. 33 cm

Answer: B

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3. Perimeter of an equilateral triangle =.....

A. 3 + side

B. Side x Sie

C. Side / Side

D. 3 x side

Answer: D

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4. the formula to find perimeter of a rectangle is :

A. 2l+ b

B. 2(l+b)

C. l + 2b

D. $l \times b$

Answer: B

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5. If side of an equilateral triangle is 4 cm then perimeter =.....

A. 8 cm

B. 7 cm

C. 12 cm

D. 16 cm

Answer: C

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6. If iength and breadth of.a rectangle are 2.4 cm and 1.9 cm then its perimeter is.....

A. 4.3 cm

B. 8.2 cm

C. 4.2 cm

D. 8.6 cm

Answer: D

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7. The perimeter of a square is 16 cm then its side is.....

A. 4 cm

B. 64 cm

C. 24 cm

D. 32 cm

Answer: A

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8. The perimeter of a rectangle is 50 cm and its length is 12 cm then breadth is.....

A. 38 cm

B. 13 cm

C. 62 cm

D. 18 cm

Answer: B

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9. Two sides of a triangle are 4.8 cm and 3.9 cm. The perimeter of the triangle is 12 cm. Find the third side.

A. 3.3 cm

B. 4.3 cm

C. 20.7 cm

D. 3.7 cm

Answer: A

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10. Samandeep takes 3 rounds of square park of side 125 m. Find the distance covered by her.

A. 1.5 km

B. 1500 km

C. 500 m

D. 375 m

Answer: A

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11. The measurement of the region enclosed by a closed plane figure is called its.....

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12. If the length of a rectangle is x units and breadth is 5 units then its perimeter is.....

A. $5x$

B. $2(x+5)$

C. $10x$

D. $10+x$

Answer: B

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13. Find the area of the given rectangle whose length is 16 m and breadth is 8 m.

A. 42 sq. m

B. 128 sq. m

C. 72 sq. m

D. 21 sq. m

Answer: B

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14. The area of a rectangle is $144m^2$. If its breadth is 9 m then find its length.

A. 16 sq. m

B. 12 m

C. 16 m

D. 18 m

Answer: C

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15. 1 sq. m = ...sq..cm

A. 10

B. 10000

C. 1000

D. 1

Answer: B

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16. Find the.area of a square having side 3.6 cm.

A. 14.4 cm

B. 12.96 cm

C. 1.29 sq. cm

D. 12.96 cm

Answer: D

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17. The perimeter of a square is 68 m. Find its area.

A. 289 sq. m

B. 329 sq.m

C. 279 sq. m

D. 249 sq. m

Answer: A

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18. A marble tile measure $15cm \times 20cm$. How many tiles will be required to cover a wall of size $4m \times 6m$?

A. 216

B. 192

C. 188

D. 196

Answer: B

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19. What happens to the area of a square, if its side is doubled ?

A. Double

B. Half

C. Four times

D. No change

Answer: C

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20. Find the perimeter of a rectangle whose area is 234 sq. cm and its. one side is 13 cm.

A. 31 cm

B. 62 cm

C. 18 cm

D. 24 cm

Answer: B

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