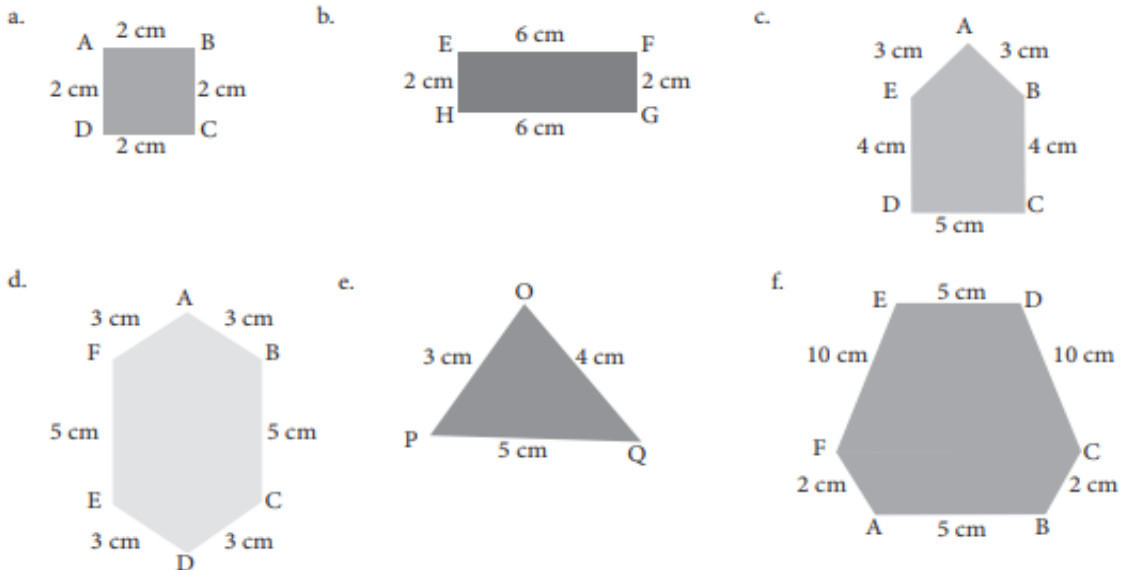


Pre activity- Do the lets get started page no 132 in textbook.

Exercise 5A

1. Find the perimeter of the following shapes.

**Solution:**

- a. Perimeter of square ABCD = $2\text{ cm} + 2\text{ cm} + 2\text{ cm} + 2\text{ cm} = 8\text{ cm}$
- b. Perimeter of rectangle EFGH = $6\text{ cm} + 2\text{ cm} + 6\text{ cm} + 2\text{ cm} = 16\text{ cm}$
- c. Perimeter of pentagon ABCDE = $3\text{ cm} + 3\text{ cm} + 4\text{ cm} + 4\text{ cm} + 5\text{ cm} = 19\text{ cm}$
- d. Perimeter of hexagon ABCDEF = $3\text{ cm} + 3\text{ cm} + 5\text{ cm} + 5\text{ cm} + 3\text{ cm} + 3\text{ cm} = 22\text{ cm}$
- e. Perimeter of triangle OPQ = $3\text{ cm} + 4\text{ cm} + 5\text{ cm} = 12\text{ cm}$
- f. Perimeter of ABCDEF = $5\text{ cm} + 2\text{ cm} + 10\text{ cm} + 10\text{ cm} + 2\text{ cm} + 5\text{ cm} + 5\text{ cm} = 34\text{ cm}$

Exercise 5B

1. Find the perimeter of the squares with the given sides.

- a. 4 cm b. 6 cm c. 14 cm d. 18 cm

Solution:

- a. Perimeter of square = $4 \times \text{side} = 4 \times 4 = 16\text{ cm}$
- b. Perimeter of square = $4 \times \text{side} = 4 \times 6 = 24\text{ cm}$
- c. Perimeter of square = $4 \times \text{side} = 4 \times 14 = 56\text{ cm}$
- d. Perimeter of square = $4 \times \text{side} = 4 \times 18 = 72\text{ cm}$
2. Find the perimeter of the rectangles with the given lengths and breadths.
- a. Length = 5 cm, breadth = 2 cm
- b. Length = 7 cm, breadth = 3 cm
- c. Length = 9 cm, breadth = 5 cm
- d. Length = 12 cm, breadth = 7 cm

- c. Area of rectangle = $l \times b = 13 \times 7 = 91 \text{ cm}^2$
- d. Area of rectangle = $l \times b = 19 \times 8 = 152 \text{ cm}^2$
- e. Area of rectangle = $l \times b = 20 \times 10 = 200 \text{ cm}^2$
- f. Area of rectangle = $l \times b = 24 \times 6 = 144 \text{ cm}^2$

2. Find the area of the squares with the given sides.

- a. 5 cm b. 8 cm c. 15 cm
- d. 24 cm e. 32 cm

Solution:

- a. Area of square = $s \times s = 5 \times 5 = 25 \text{ cm}^2$
- b. Area of square = $s \times s = 8 \times 8 = 64 \text{ cm}^2$
- c. Area of square = $s \times s = 15 \times 15 = 225 \text{ cm}^2$
- d. Area of square = $s \times s = 24 \times 24 = 576 \text{ cm}^2$
- e. Area of square = $s \times s = 32 \times 32 = 1024 \text{ cm}^2$

Solution:

- a. Perimeter of rectangle
= $2 \times (l + b) = 2 \times (5 + 2) = 2 \times 7 = 14 \text{ cm}$
- b. Perimeter of rectangle = $2 \times (l + b) = 2 \times (7 + 3)$
= $2 \times 10 = 20 \text{ cm}$
- c. Perimeter of rectangle = $2 \times (l + b) = 2 \times (9 + 5)$
= $2 \times 14 = 28 \text{ cm}$
- d. Perimeter of rectangle = $2 \times (l + b) = 2 \times (12 + 7)$
= $2 \times 19 = 38 \text{ cm}$

3. Find the perimeter of the triangles with the given sides.

- a. 5 cm, 4 cm, 3 cm b. 8 cm, 9 cm, 12 cm
- c. 11 cm each d. 15 cm each

Solution:

- a. Perimeter of triangle = $5 + 4 + 3 = 12 \text{ cm}$
- b. Perimeter of triangle = $8 + 9 + 12 = 29 \text{ cm}$
- c. Perimeter of triangle = $11 + 11 + 11 = 33 \text{ cm}$
- d. Perimeter of triangle = $15 + 15 + 15 = 45 \text{ cm}$

4. Find the side of the squares with the following perimeters.

- a. 12 cm b. 20 cm c. 28 cm d. 52 cm

Solution:

- a. Side of square = $\frac{\text{Perimeter}}{4} = \frac{12}{4} = 3 \text{ cm}$
- b. Side of square = $\frac{\text{Perimeter}}{4} = \frac{20}{4} = 5 \text{ cm}$
- c. Side of square = $\frac{\text{Perimeter}}{4} = \frac{28}{4} = 7 \text{ cm}$
- d. Side of square = $\frac{\text{Perimeter}}{4} = \frac{52}{4} = 13 \text{ cm}$

5. Find the length of the rectangles with the following perimeters and breadths.

- a. Perimeter = 14 cm, breadth = 2 cm
- b. Perimeter = 20 cm, breadth = 4 cm

Solution:

- a. Length of rectangle = $\frac{\text{Perimeter} - 2b}{2}$
= $\frac{14 - (2 \times 2)}{2} = \frac{14 - 4}{2} = \frac{10}{2} = 5 \text{ cm}$
- b. Length of rectangle = $\frac{\text{Perimeter} - 2b}{2}$
= $\frac{20 - (2 \times 4)}{2} = \frac{20 - 8}{2} = \frac{12}{2} = 6 \text{ cm}$

Exercise 5C

1. Find the area of the rectangles with the given lengths and breadths.

- a. Length = 5 cm, breadth = 3 cm
- b. Length = 8 cm, breadth = 5 cm
- c. Length = 13 cm, breadth = 7 cm
- d. Length = 19 cm, breadth = 8 cm
- e. Length = 20 cm, breadth = 10 cm
- f. Length = 24 cm, breadth = 6 cm

Solution:

- a. Area of rectangle = $l \times b = 5 \times 3 = 15 \text{ cm}^2$
- b. Area of rectangle = $l \times b = 8 \times 5 = 40 \text{ cm}^2$
- c. Area of rectangle = $l \times b = 13 \times 7 = 91 \text{ cm}^2$
- d. Area of rectangle = $l \times b = 19 \times 8 = 152 \text{ cm}^2$

- e. Area of rectangle = $l \times b = 20 \times 10 = 200 \text{ cm}^2$
 f. Area of rectangle = $l \times b = 24 \times 6 = 144 \text{ cm}^2$

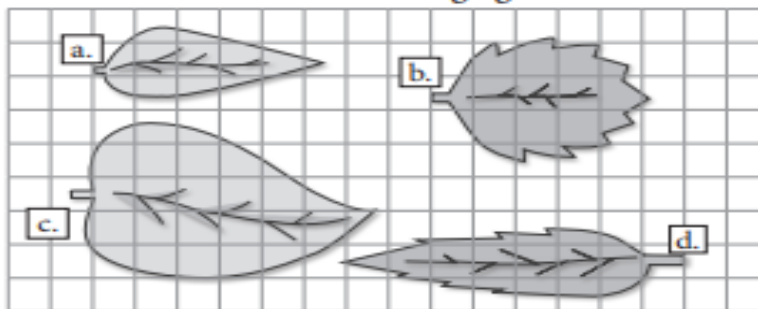
2. Find the area of the squares with the given sides.

- a. 5 cm b. 8 cm c. 15 cm
 d. 24 cm e. 32 cm

Solution:

- a. Area of square = $s \times s = 5 \times 5 = 25 \text{ cm}^2$
 b. Area of square = $s \times s = 8 \times 8 = 64 \text{ cm}^2$
 c. Area of square = $s \times s = 15 \times 15 = 225 \text{ cm}^2$
 d. Area of square = $s \times s = 24 \times 24 = 576 \text{ cm}^2$
 e. Area of square = $s \times s = 32 \times 32 = 1024 \text{ cm}^2$

3. Find the area of the following figures.



Solution:

- a. Number of completely filled squares = 2
 Number of more than half-filled squares = 4
 Thus, area of the figure = $2 + 4 = 6 \text{ cm}^2$
- b. Number of completely filled squares = 11
 (considering more than half-filled squares as completely filled squares)
 Thus, area of the figure = 11 cm^2
- c. Number of completely filled squares = 17
 (considering more than half-filled squares as completely filled squares)
 Number of half-filled squares = 6 (Consider only half of this)
 Thus, area of the figure = $17 + (6 \div 2) = 17 + 3 = 20 \text{ cm}^2$
- d. Number of completely filled squares = 6
 (considering more than half-filled squares as completely filled squares)
 Number of half-filled squares = 1 (Consider only half of this)
 Thus, area of the figure = $6 + (1 \div 2) = 6 + 0.5 = 6.5 \text{ cm}^2$

Post activity- Write the key concepts of page no 140.

- 1) Find out the Perimeter and area of your Study Table.

TEACHER

HOD

COORDINATOR

PRINCIPAL