Introduction to Perimeter and Area

A. Choose the Correct Answer:

1. What is the perimeter of a square with side 6 cm?

a) 12 cm b) 24 cm
c) 36 cm d) 30 cm

2. Which of the following figures will have the smallest perimeter for the same area?

a) Square b) Rectangle
c) Triangle d) Circle

3. If the length of a rectangle is 10 cm and the breadth is 4 cm, what is its perimeter?

a) 28 cm b) 40 cm
c) 26 cm d) 20 cm

4. Area is measured in:

a) cm b) cm^3
c) cm^2 d) m

5. What is the formula for the area of a square with side 's'?

a) $s \times s$ b) $4 \times s$
c) $2 \times s$ d) $s + s$

B. Write the Missing Terms to Complete the Sentences:

1. The perimeter of a rectangle is given by the formula _____.
2. Area refers to the _____ occupied by a closed figure.
3. If the side of a square is doubled, its area becomes _____ times larger.
4. The unit used for measuring perimeter is _____.
5. The area of a rectangle is equal to length multiplied by _____.

C. Figure out the answers to these questions:

1. Draw and label a square and a rectangle. Mention their sides and write the formulas for perimeter and area.
2. The length of a rectangular playground is twice its breadth. If the perimeter is 60 m, find its length and breadth.
3. A table top is in the shape of a rectangle. If its length is 1.2 m and breadth is 0.8 m, what is its area in m^2?

4. Compare the perimeters of a square of side 10 cm and a rectangle of length 12 cm and breadth 8 cm.
5. A wire is bent into a square of side 5 cm. If the same wire is bent into a rectangle with breadth 4 cm, find its new length.
6. Create a story problem involving a square garden where you calculate both area and perimeter.

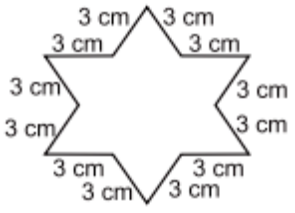
D. Mark each sentence with a True (✓) or False (✗):

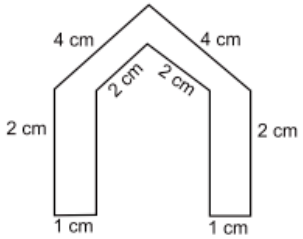
1. Perimeter is the space enclosed inside a figure. ☐
2. Area of a rectangle is the same as its perimeter. ☐
3. The unit of area is always in square units. ☐
4. A square has four equal sides, so its perimeter is 4 × side. ☐
5. If the sides of a rectangle are 10 cm and 5 cm, the area is 50 cm². ☐

E. Challenge yourself with these questions:

1. Create a poster showing real-life objects and label them with their approximate area and perimeter.
2. Imagine a new shape and give it a name. Write your own method to calculate its perimeter.
3. A rectangular wall has to be painted. If the wall is 10 m long and 3 m high, how much area needs to be painted?
4. Two rectangles have the same area but different perimeters. Draw and label both.
5. A farmer wants to fence his rectangular field. If the field is 40 m long and 30 m wide, how much fencing wire is needed?

F. Find the perimeter of each of the following figures.

1. 

2. 

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