Introduction of Perimeter and Area

A. Choose the correct answer:

| | 1. Perimeter is the | |
|----|--|---|
| | a) space covered by a figure | b) sum of all interior angles |
| | c) total length around a figure | d) volume of a shape |
| | 2. Area is measured in | |
| | a) cm | b) m |
| | c) m² | d) kg |
| | 3. Which of the following has both perimeter and area? | |
| | a) A dot | b) A line segment |
| | c) A square | d) An angle |
| | 4. The perimeter of a rectangle with length 10 cm and breadth 5 cm is | |
| | a) 15 cm | b) 25 cm |
| | c) 30 cm | d) 50 cm |
| | 5. The area of a square with side 6 cm is | |
| | a) 36 cm | b) 36 cm² |
| | c) 12 cm | d) 12 cm ² |
| Β. | Write the Missing Terms to Complete the Sentences: | |
| | 1. Perimeter is the of the | ne lengths of all sides of a closed figure. |
| | Area is the covered by a closed figure. | |
| | 3. The unit of perimeter is in | units. |
| | 4. The unit of area is in | units. |
| | . A rectangle with equal sides becomes a | |
| C. | Mark each sentence with a True () or False (): Perimeter and area have the same units. | |
| | | |

2. Every shape with area must be a closed figure.

- 3. A figure can have perimeter but no area.
- 4. Perimeter tells us how much space is covered inside a shape.
- 5. The area of a square increases four times when its side is doubled.

D. Figure out the answers to these questions:

- 1. Find the perimeter and area of a square of side 8 cm.
- 2. A rectangular park is 20 m long and 10 m wide. Find its area and perimeter.
- 3. A square has perimeter 40 cm. Find its side and area.
- 4. Which would increase more if you double the side of a square its area or perimeter? Justify.
- 5. Draw a triangle with sides 5 cm, 6 cm, and 7 cm. Find its perimeter.

E. Challenge yourself with these questions:

- 1. Draw any two shapes with the same perimeter but different areas.
- 2. Find the area and perimeter of a rectangle with length 9 cm and breadth 4 cm.
- 3. Make a table comparing formulas of perimeter and area of square, rectangle, and triangle.
- 4. Explain the difference between perimeter and area using a football field.
- 5. A square tile has area 49 cm². Find its perimeter.