Subject: Mathematics

Class: 6

Topic: Curves and Simple Closed Figures

Levels: Basic, Intermediate, Advanced

Level: Basic

1. A curve that does not cross itself is called a _____ curve.

2. Is a circle a closed figure or an open figure? [?] Closed | [?] Open

3. Identify the figure: A figure that begins and ends at the same point is _____.

4. Aditi draws a triangle. How many line segments are in this simple closed figure? _____

5. A polygon is a simple closed figure made up of entirely _____.

6. Rahul draws a shape like a 'C'. Is this an open or closed curve? _____

7. Draw a ? (dot) inside a closed figure and a ? (star) outside it.

8. Which of these is a simple closed figure? (a) Letter 'S' (b) Letter 'O' (c) Letter 'M'

9. The distance around a simple closed figure is called its _____.

10. True or False: A line segment is a type of curve. [?] True | [?] False

Subject: Mathematics

Class: 6

Topic: Curves and Simple Closed Figures

Levels: Basic, Intermediate, Advanced

Level: Intermediate

1. If a curve has an 'Interior' and an 'Exterior', it must be a _____ curve.

2. Anish uses 4 matchsticks to make a square. Is this a polygon? _____

3. A simple closed figure made of 3 line segments is called a _____.

4. What do we call the point where two sides of a polygon meet? _____

5. In the figure ?, how many vertices are there? Count and write: _____

6. Can a simple closed figure be formed using only 2 straight lines? [?] Yes | [?] No

7. If Priya walks along the boundary of a park, she is tracing a _____ curve.

8. A polygon with 4 sides is known as a _____.

9. Identify the symbol: Does the symbol ? represent a closed figure? _____

10. The region containing the boundary and the interior of a figure is its _____.

Subject: Mathematics

Class: 6

Topic: Curves and Simple Closed Figures

Levels: Basic, Intermediate, Advanced

Level: Advanced

1. If ? represents an angle inside a triangle, can a curve with angles be 'simple'? _____

2. Why is a circle not considered a polygon despite being a simple closed figure? _____

3. A closed figure has an area of 25 cm². If we open the curve, does it still have an 'area'? _____

4. Find the sum of sides: A triangle ? + a quadrilateral ? = _____ sides total.

5. The value of ? (pi) is used to find the boundary of which specific closed figure? _____

6. Explain the difference between a 'Simple Curve' and a 'Complex Curve' in one word.

7. If a figure has 10 vertices, how many line segments form its boundary? _____

8. Can a curve be both 'Closed' and 'Not Simple'? Give a shape example (e.g., Figure 8).

9. Rohan says every polygon is a closed figure, but every closed figure is not a polygon. Is he right? _____

10. Calculate: If a square has side 's', its boundary length is s + s + s + s = s × _____.