

# POLYGON

Polygons are fundamental shapes in geometry that consist of flat, closed figures formed by connecting three or more line segments. Unlike curves, polygons have straight sides. They can have any number of sides, making it difficult to determine the specific quantity.

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**Q1: What is the area of a rectangle with a length of 5 units and a width of 4 units?**

- A: 20 square units
  - B: 9 square units
  - C: 10 square units
  - D: 8 square units
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**Q2: What is the area of a square with a side length of 6 units?**

- A: 12 square units
  - B: 18 square units
  - C: 24 square units
  - D: 36 square units
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**Q3: What is the measure of each exterior angle of a square?**

- A: 45 degrees
  - B: 60 degrees
  - C: 90 degrees
  - D: 180 degrees
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**Q4: What is the Perimeter of a Square with a side of 6 cm?**

- A: 24 cm<sup>2</sup>
  - B: 24 cm
  - C: 24 cm<sup>3</sup>
  - D: 36 cm<sup>2</sup>
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**Q5: What is the formula to calculate the perimeter of a rectangle?**

- A: 2 ( length + breadth)
  - B: 2 ( length - breadth)
  - C: 2 ( length × breadth)
  - D: 2 ( length ÷ breadth)
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**Q6: What is the area of a Rectangle with a length of 10 cm and a width of 5 cm?**

- A: 50 cm
  - B: 50 cm<sup>2</sup>
  - C: 50 cm<sup>3</sup>
  - D: 15 cm<sup>2</sup>
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**Q7: Identify the Polygon**

- A: Triangle
  - B: Quadrilateral
  - C: Hexagon
  - D: All of these
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**Q8: What is the area of a triangle with a base of 4 cm and height of 12 cm**

- A: 24 cm
  - B: 24 cm<sup>3</sup>
  - C: 24 cm<sup>2</sup>
  - D: 16 cm<sup>2</sup>
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**Q9: What is the formula for the perimeter of a triangle?**

- A: Side<sup>2</sup>
  - B: Side<sup>3</sup>
  - C: Side + Side + Side
  - D: Side × Angle
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**Q10: What is the perimeter of a Hexagon with a side of 10 cm?**

- A: 60 cm
  - B: 60 cm<sup>2</sup>
  - C: 60 cm<sup>4</sup>
  - D: 60 cm<sup>6</sup>
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## Answers

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**Q1:** A - 20 square units

**Q2:** D - 36 square units

**Q3:** C - 90 degrees

**Q4:** B - 24 cm

**Q5:** A - 2 ( length + breadth)

**Q6:** B - 50 cm<sup>2</sup>

**Q7:** D - All of these

**Q8:** C - 24 cm<sup>2</sup>

**Q9:** C - Side + Side + Side

**Q10:** A - 60 cm