Edulyte

# PARALLELOGRAM

A parallelogram, a fundamental 2D geometric shape, boasts two sets of parallel sides with equal lengths. Within this class of quadrilaterals, adjacent angles consistently sum up to 180 degrees, imparting a significant attribute to its structure. In geometry, there are a myriad of 2-D shapes and figures, ranging from squares and rectangles to circles and rhombuses, each uniquely defined by their distinct characteristics. Hence, for a complete understanding of the parallelogram, it is needed to explore its parallelogram definition and parallelogram meaning, characteristics, significances, and properties.

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## Q1: What type of parallelogram has equal sides and right angles?

A: Rhombus
B: Rectangle
C: Square
D: Trapezoid

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## Q2: How many diagonals does a parallelogram have?

A: 0
B: 1
C: 2
D: 4

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## Q3: What is the formula to calculate the area of a parallelogram?

A: A = base × height
B: A = (base + height) / 2
C: A = length × width
D: A = 2 × (base + height)

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## Q4: If the base of a parallelogram is 6 meters and the height is 4 meters, what is its area?

A: 24 square meters
B: 15 square meters
C: 12 square meters
D: 10 square meters

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## Q5: What is the formula for the perimeter of a parallelogram?

A: P = 4 × base
B: P = 2 × (length + width)
C: P = base × height
D: P = 2 × (base + side)

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## Q6: If one side of a parallelogram is 8 meters and the base is 5 meters, what is its perimeter?

A: 18 meters
B: 26 meters
C: 32 meters
D: 40 meters

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## Q7: How many pairs of parallel sides does a parallelogram have?

A: 0
B: 1
C: 2
D: 4

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## Q8: Which of the following statements is true regarding the diagonals of a parallelogram?

A: The diagonals are equal in length.
B: The diagonals are always perpendicular.
C: The diagonals bisect each other.
D: The diagonals form a right angle.

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## Q9: If the height of a parallelogram is 10 inches and the base is 6 inches, what is its area?

A: 60 square inches
B: 30 square inches
C: 36 square inches
D: 15 square inches

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## Q10: How are opposite angles in a parallelogram related?

A: They are congruent.
B: They are supplementary.
C: They are complementary.
D: They are equal to 90 degrees.

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## Answers

**Q1:** C - Square

**Q2:** C - 2

**Q3:** A - A = base × height

**Q4:** A - 24 square meters

**Q5:** D - P = 2 × (base + side)

**Q6:** B - 26 meters

**Q7:** C - 2

**Q8:** C - The diagonals bisect each other.

**Q9:** A - 60 square inches

**Q10:** A - They are congruent.