Edulyte

AREA OF REGULAR POLYGON FORMULA

Imagine you're an architect designing a new skyscraper, a cartographer mapping uncharted territories, or a video game designer creating virtual landscapes. What do all these professions have in common? They rely heavily on polygons. What's a polygon? Is there a regular polygon? Find out all this and the latest tricks to improve geometry right here!

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Q1: Which of the following polygons is considered a regular polygon?

A: Square
B: Rectangle
C: Trapezoid
D: Irregular pentagon

Q2: What is the formula for finding the area of a regular polygon?

A: A = length × width
B: A = 1/2 × base × height
C: A = (1/2) × perimeter × apothem
D: A = π × radius²

Q3: What is the area formula for a regular hexagon?

A: A = $6s^2$
B: A = $(3\sqrt{3}/2) \times s^2$
C: A = (1/2) × base × height
D: A = (1/2) × perimeter × apothem

Q4: What is a polygon?

A: A three-dimensional shape
B: A closed, flat shape with straight sides
C: A shape with only curved sides
D: A shape with no sides

Q5: How many sides does a hexagon have?

A: Four
B: Five
C: Six
D: Seven

Q6: In a regular polygon, which of the following properties is true?

A: All sides are of different lengths.
B: All angles are of different measures.
C: All sides are of equal length.
D: All angles are of different measures.

Q7: What is the sum of the interior angles of a triangle?

A: 90 degrees
B: 120 degrees
C: 180 degrees
D: 360 degrees

Q8: Which polygon has eight sides?

A: Octagon
B: Hexagon
C: Decagon
D: Heptagon

Q9: If all sides of a polygon are equal but not all angles are equal, what type of polygon is it?

A: Regular polygon
B: Equilateral polygon
C: Equiangular polygon
D: Irregular polygon

Q10: What is the name of a polygon with five sides?

A: Quintagon
B: Pentagon
C: Hexagon
D: Septagon

Answers

Q1: A - Square

Q2: C - A = (1/2) × perimeter × apothem

Q3: B - A = (3√3/2) × s^2

Q4: B - A closed, flat shape with straight sides

Q5: C - Six

Q6: C - All sides are of equal length.

Q7: C - 180 degrees

Q8: A - Octagon

Q9: D - Irregular polygon

Q10: D - Septagon