Edulyte

EQUILATERAL TRIANGLE

Equilateral triangle is a fundamental geometric shape having three equal sides and three equal angles, each measuring 60 degrees. These triangles hold special importance in geometry due to their unique properties and symmetry. Their equal side lengths ensure that all interior angles are same, making calculations and proofs involving them relatively simple.

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Q1: How many degrees are in each angle of an equilateral triangle?

A: 45 degrees
B: 60 degrees
C: 90 degrees
D: 120 degrees

Q2: What is the height of an equilateral triangle with side lengths 's'?

A: s/2
B: s√3/2
C: s
D: 2s

Q3: What's the sum of the interior angles of an equilateral triangle?

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

Q4: How many degrees are in each angle of an equilateral triangle?

A: 45 degrees
B: 60 degrees
C: 90 degrees
D: 120 degrees

Q5: What is the height of an equilateral triangle with side lengths 's'?

A: s/2
B: s√3/2
C: s
D: 2s

Q6: What's the sum of the interior angles of an equilateral triangle?

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

Q7: If the side length of an equilateral triangle is 10 units, what is the height of the triangle?

A: 5 units
B: 5√3 units
C: 10 units
D: 20 units

Q8: In an equilateral triangle, what is the ratio of the height to the side length?

A: 1:1
B: 1:2
C: √3:2
D: 2:√3

Q9: If the perimeter of an equilateral triangle is 30 cm, what is the length of each side?

A: 10 cm
B: 15 cm
C: 20 cm
D: 30 cm

Q10: What is the area of an equilateral triangle with side length 's'?

A: s^2
B: (s^2√3)/2
C: s^3
D: 2s√3

Answers

Q1: B - 60 degrees

Q2: B - s√3/2

Q3: B - 180 degrees

Q4: B - 60 degrees

Q5: B - s√3/2

Q6: B - 180 degrees

Q7: B - 5√3 units

Q8: C - √3:2

Q9: A - 10 cm

Q10: B - (s^2√3)/2