

Angles in Regular Polygons

Calculate the sum of the interior angles of a polygon with:

- (a) 16 sides (b) 11 sides
(c) 20 sides (d) 14 sides

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- (a) 16 sides (b) 11 sides
(c) 20 sides (d) 14 sides

Calculate the size of the exterior and interior angles of a polygon with:

- (a) 15 sides (b) 12 sides
(c) 18 sides (d) 36 sides

Calculate the size of the exterior and interior angles of a polygon with:

- (a) 15 sides (b) 12 sides
(c) 18 sides (d) 36 sides

Calculate the number of sides of a polygon whose exterior angle is:

- (a) 12° (b) 20°
(c) 18° (d) 40°

Calculate the number of sides of a polygon whose exterior angle is:

- (a) 12° (b) 20°
(c) 18° (d) 40°

Calculate the number of sides of a polygon whose interior angle is:

- (a) 120° (b) 162°
(c) 160° (d) 174°

Calculate the number of sides of a polygon whose interior angle is:

- (a) 120° (b) 162°
(c) 160° (d) 174°

Explain why it is not possible to have a polygon with an exterior angle of 23° .

Explain why it is not possible to have a polygon with an interior angle of 143° .

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Find the name of the regular polygon whose interior angle is three times that of its exterior angle.

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