Topic: Angles

Topic/Skill	Definition/Tips	Example
1. Types of Angles	Acute angles are less than 90°. Right angles are exactly 90°. Obtuse angles are greater than 90° but less than 180°. Reflex angles are greater than 180° but less than 360°.	Acute Right Obtuse Reflex
2. Angle Notation	Can use one lower-case letters, eg. θ or x Can use three upper-case letters, eg.	$A = \theta$
3. Angles at a Point	Angles around a point add up to 360°.	$\begin{vmatrix} d & a \\ c & b \end{vmatrix}$ $a+b+c+d=360^{\circ}$
4. Angles on a Straight Line	Angles around a point on a straight line add up to 180°.	$x = y$ $x + y = 180^{\circ}$
5. Opposite Angles	Vertically opposite angles are equal.	$\frac{x}{y}$
6. Alternate Angles	Alternate angles are equal. They look like Z angles, but never say this in the exam.	<i>y</i> / <i>x x</i> / <i>y</i>
7. Correspondin g Angles	Corresponding angles are equal. They look like F angles, but never say this in the exam.	<i>y</i> / <i>x</i>
8. Co-Interior Angles	Co-Interior angles add up to 180°. They look like C angles, but never say this in the exam.	<i>y</i> / <i>x x</i> / <i>y</i>

10. Types of Triangles Right Angle Triangles have a 90° angle in. Isosceles Triangles have 2 equal sides and 2 equal hase angles. Equilateral Triangles have 3 equal sides and 3 equal angles (60°). Scalene Triangles have different sides and different angles. Base angles in an isosceles triangle are equal. 11. Angles in a Quadrilateral add up to 360°. 12. Polygon A 2D shape with only straight edges. A shape is regular if all the sides and all the angles are equal. 14. Names of Polygons A shape is regular if all the sides and all the angles are equal. 15. Sum of Interior Angles in a pecagon 16. Size of Interior Angle in a Regular Pentagon To you can also use the formular in the side of Interior Angle in a Regular Pentagon = (5 - 2) × 180	9. Angles in a Triangle	Angles in a triangle add up to 180°.	800
Triangles angle in. Isosceles Triangles have 2 equal sides and 2 equal base angles. Equilateral Triangles have 3 equal sides and 3 equal angles (60°). Scalene Triangles have different sides and different angles. Base angles in an isosceles triangle are equal. 11. Angles in a Quadrilateral add up to 360°. 12. Polygon A 2D shape with only straight edges. 13. Regular A shape is regular if all the sides and all the angles are equal. 14. Names of Polygons 4-sided = Quadrilateral 5-sided = Pentagon 6-sided = Hexagon 7-sided = Heptagon/Septagon 8-sided = Octagon 10-sided = Decagon 11-sided = Decagon 12-sided = Nonagon 11-sided = Decagon 11-sided = Decagon 12-sided = Decagon 13-sided = Nonagon 13-sided = Nonagon 14-sided = Octagon 15-sided = Nonagon 15-sided = Nonagon 10-sided = Decagon 15-sided = Nonagon 10-sided = Decagon 15-sided = Nonagon 10-sided			
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Polygons 4-sided = Quadrilateral 5-sided = Pentagon 6-sided = Hexagon 7-sided = Heptagon/Septagon 8-sided = Octagon 9-sided = Nonagon 10-sided = Decagon Interior Angles 15. Sum of Interior Angles 16. Size of Interior Angle Interior Angle Angles 16. Size of Interior Angle Interior Angle In a Regular Pentagon Triangle Quadrilateral Pentagon Triangle Octagon Nonagon Pentagon Triangle Ouadrilateral Pentagon Fixed Pentagon Sum of Interior Angles in a Decagon $= (10-2) \times 180 = 1440^{\circ}$ Size of Interior Angle in a Regular Pentagon	13. Regular		
Interior where n is the number of sides. $= (10-2) \times 180 = 1440^{\circ}$ Angles 16. Size of Interior Angle Size of Interior Angle in a Regular Pentagon $= (10-2) \times 180 = 1440^{\circ}$		4-sided = Quadrilateral 5-sided = Pentagon 6-sided = Hexagon 7-sided = Heptagon/Septagon 8-sided = Octagon 9-sided = Nonagon	
Interior Angle Pentagon -	Interior	where n is the number of sides.	1
You can also use the formula: $\frac{108^{\circ}}{5}$	1.C C: of	$(n-2) \vee 100$	Size of Interior Angle in a Popular



in a Regular Polygon	180 – Size of Exterior Angle	
17. Size of Exterior	$\frac{360}{n}$	Size of Exterior Angle in a Regular Octagon =
Angle in a Regular Polygon	You can also use the formula: 180 – Size of Interior Angle	$\frac{360}{8} = 45^{\circ}$