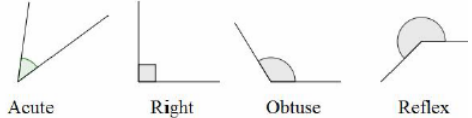
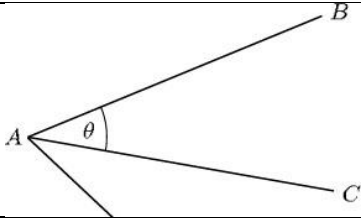
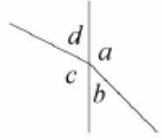
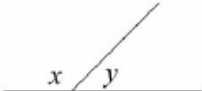
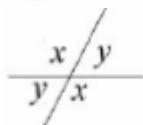
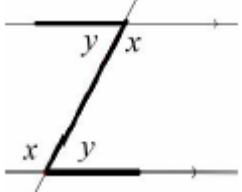
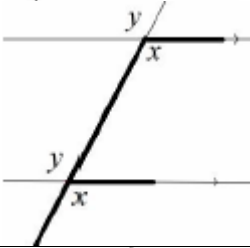
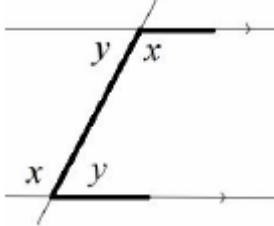
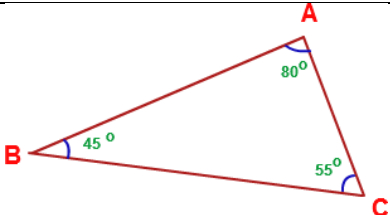
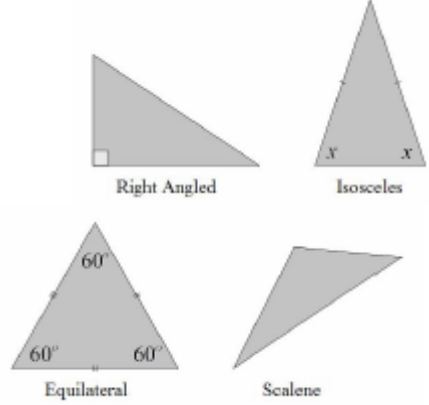
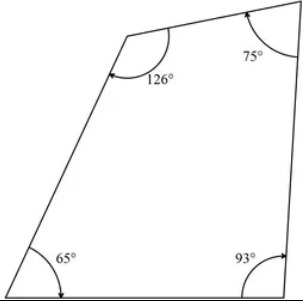
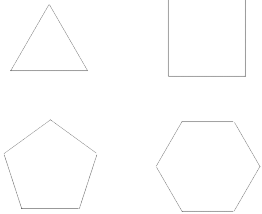
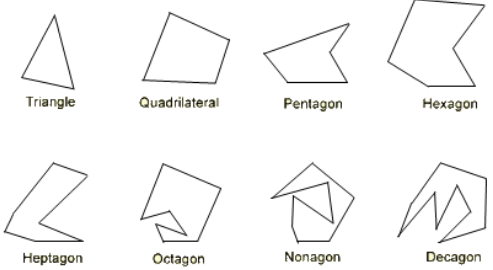


Topic: Angles

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° .	 <div style="display: flex; justify-content: space-around; font-size: small;"> Acute Right Obtuse Reflex </div>
2. Angle Notation	Can use one lower-case letters, eg. θ or x Can use three upper-case letters, eg. BAC	
3. Angles at a Point	Angles around a point add up to 360°.	 $a + b + c + d = 360^\circ$
4. Angles on a Straight Line	Angles around a point on a straight line add up to 180°.	 $x + y = 180^\circ$
5. Opposite Angles	Vertically opposite angles are equal.	
6. Alternate Angles	Alternate angles are equal. They look like Z angles, but never say this in the exam.	
7. Corresponding Angles	Corresponding angles are equal. They look like F angles, but never say this in the exam.	
8. Co-Interior Angles	Co-Interior angles add up to 180°. They look like C angles, but never say this in the exam.	

9. Angles in a Triangle	Angles in a triangle add up to 180°.	
10. Types of Triangles	Right Angle Triangles have a 90° 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	Angles in a quadrilateral add up to 360°.	
12. Polygon	A 2D shape with only straight edges .	Rectangle, Hexagon, Decagon, Kite etc.
13. Regular	A shape is regular if all the sides and all the angles are equal .	
14. Names of Polygons	3-sided = Triangle 4-sided = Quadrilateral 5-sided = Pentagon 6-sided = Hexagon 7-sided = Heptagon/Septagon 8-sided = Octagon 9-sided = Nonagon 10-sided = Decagon	
15. Sum of Interior Angles	$(n - 2) \times 180$ where n is the number of sides.	Sum of Interior Angles in a Decagon = $(10 - 2) \times 180 = 1440^\circ$
16. Size of Interior Angle in a Regular Polygon	$\frac{(n - 2) \times 180}{n}$ You can also use the formula:	Size of Interior Angle in a Regular Pentagon = $\frac{(5 - 2) \times 180}{5} = 108^\circ$

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