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| **Topic/Skill** | **Definition/Tips** | **Example**  **Topic: Angles** |
| 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°. |  |
| 2. Angle Notation | Can use **one lower-case** letters, eg. or  Can use **three upper-case** letters, eg. | Image result for angle notation |
| 3. Angles at a Point | **Angles around a point add up to 360°**.  So here |  |
| 4. Angles on a Straight Line | **Angles around a point on a straight line add up to 180°**. {so here |  |
| 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. Also called Allied Angles |  |
| 9. Angles in a Triangle | **Angles in a triangle add up to 180°.** | Image result for angles in a triangle |
| 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°.** | Image result for angles in a quadrilateral |
| 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** | Image result for irregular polygons |
| 15. Sum of Interior Angles | where n is the number of sides. | Sum of Interior Angles in a Decagon = |
| 16. Size of Interior Angle in a Regular Polygon | You can also use the formula: | Size of Interior Angle in a Regular Pentagon = |
| 17. Size of Exterior Angle in a Regular Polygon | You can also use the formula: | Size of Exterior Angle in a Regular Octagon = |

**Knowledge Organiser**