Name_____

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7.2 Angles

An angle is formed when two rays have a common endpoint called a **vertex**.
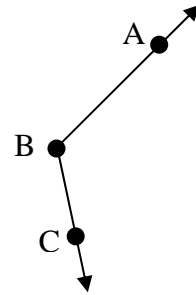
Angles can be named by its vertex or by a point from each ray and the vertex in the middle.

The vertex of the angle on the right is _____

The angle on the right has two sides; _____

The figure on the right may be named;

- $< B, < ABC$ or $< CBA$
- In **every** case, ***B*** is the focus of the name – since ***B*** is the _____ of the angle!

A **protractor** is a device used to measure or draw an angle.
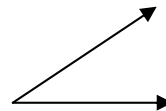
Error Alert!

A common measuring error with a protractor occurs because most protractors have **2 rows of numbers** and you must choose the correct measurement. The following steps can be used to never make that error when measuring or drawing angles.

1. **Classify the angle first!**
   - If you classify the angle before you measure or draw it, you will know which row of numbers you need to use on your protractor.
2. Place the center (or bulls eye) of the protractor on the vertex of the angle.
3. Line up the bottom guideline along either of the **sides** of the angle and follow the remaining side to the correct number.

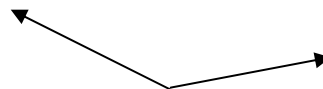Angles are **classified** as acute, right, obtuse or straight.

Acute angles measure less than 90°.

Right angles measure exactly 90°.

Obtuse angles measure more than 90°.

Straight angles measure 180° and form a line.

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Acute Angle	an angle that measures less than 90°	Corresponding Angles	Angles that are in the same position (matchers) on a transversal
Adjacent Angles	angles that share a common side	Obtuse Angle	an angle that measures greater than 90°
Alternate Interior Angles	interior angles of a transversal with the same measure	Protractor	a device that is used to measure an angle
Alternate Exterior Angles	exterior angles of a transversal with the same measure	Right Angle	an angle that measures 90°
Angle	formed when two rays have the same endpoint	Side	one of the rays that form an angle
Complementary Angles	the sum of adjacent angles equals 90°	Straight Angle	an angle measuring 180°
Congruent Angles	angles with the same measure	Supplementary Angles	the sum of adjacent angles equals 180°

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Vertex	the point where two rays meet to form an angle

Vertical Angles	angles that are opposite each other when lines intersect. (congruent)