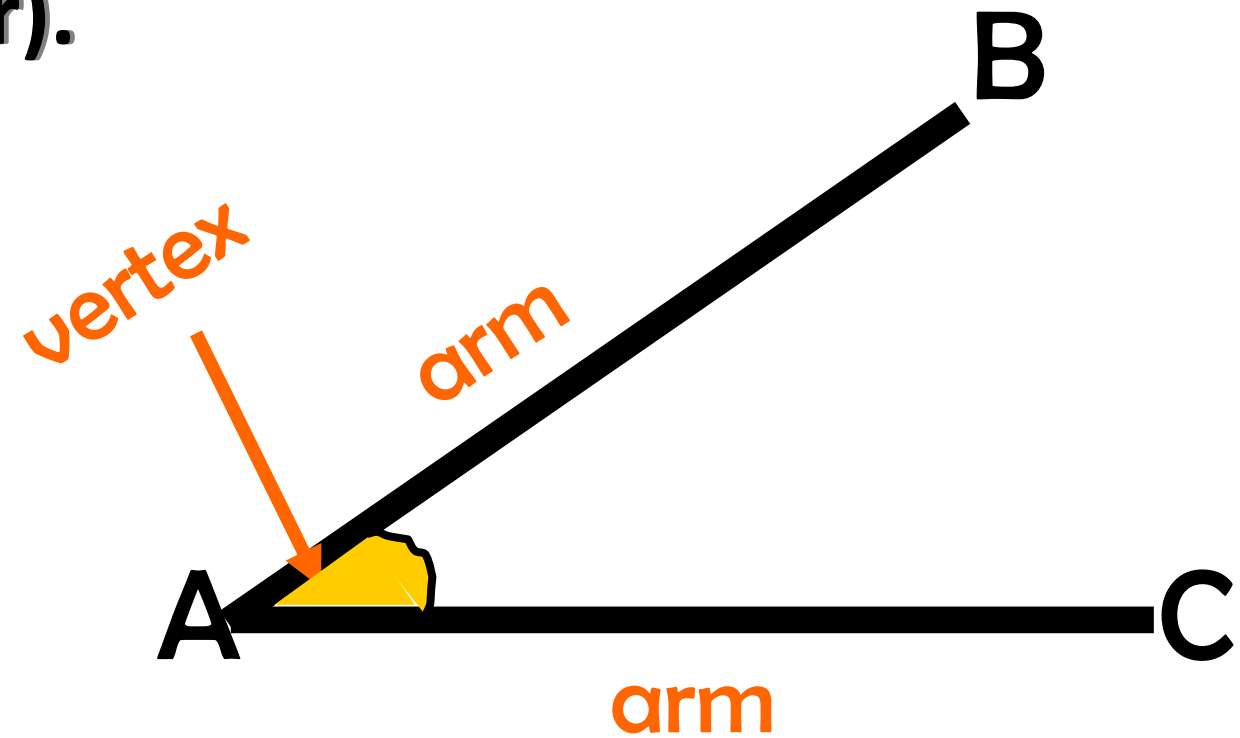


# Naming Angles

Remember that an angle is made up of two **arms** and a **vertex** (corner).

You can name an angle using three capital letters.

The vertex must always be the **middle letter**.



**BAC** is a short way of saying **angle BAC**

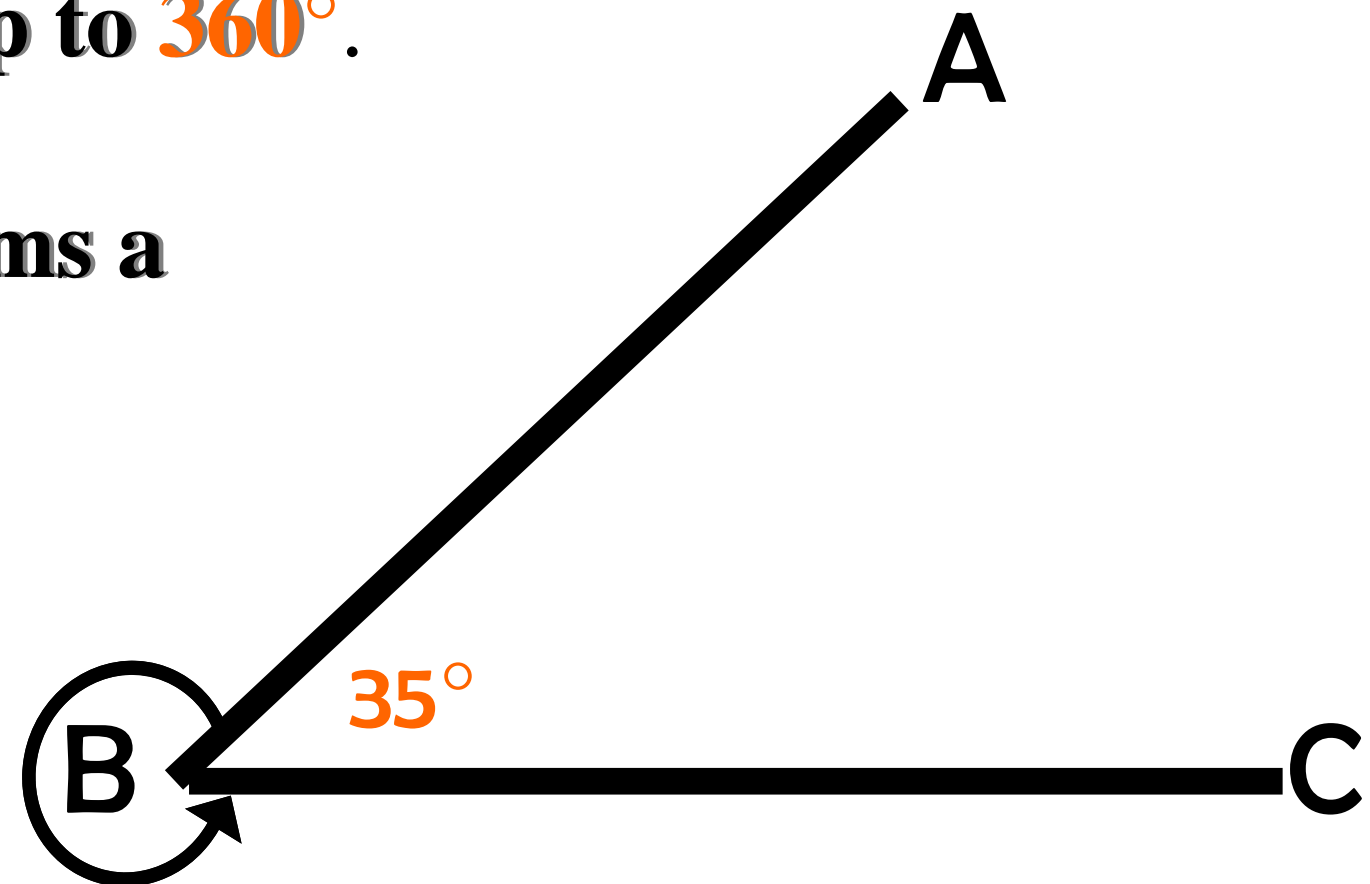
# Reflex Angles

Angles that are bigger than  $180^\circ$  are called **reflex** angles. Angles that form **A complete revolution** add up to  $360^\circ$ .

**Exam-ple:** ABC forms a complete revolution with reflex  $\angle ABC$ .

$$360^\circ - 35^\circ = 325^\circ$$

So, reflex  $\angle ABC = 325^\circ$

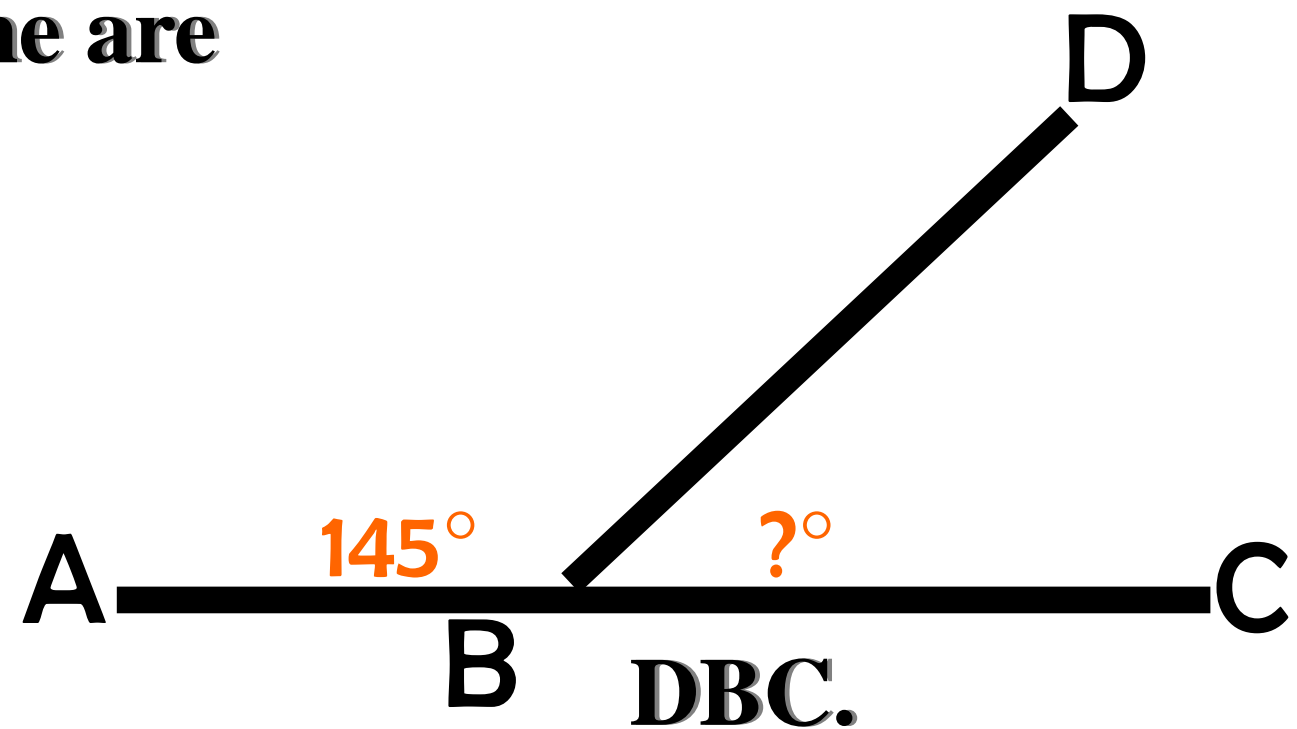


# Supplementary Angles

Angles that form a straight line are called **supplementary** angles.

Supplementary angles **add up to  $180^\circ$**

**Example:**  $\angle ABD$  forms a straight line with  $\angle DBC$ .  
 $180^\circ - 145^\circ = 35^\circ$   
So,  $\angle DBC = 35^\circ$



$35^\circ$  is said to be the **supplement** of  $145^\circ$

# Corresponding Angles

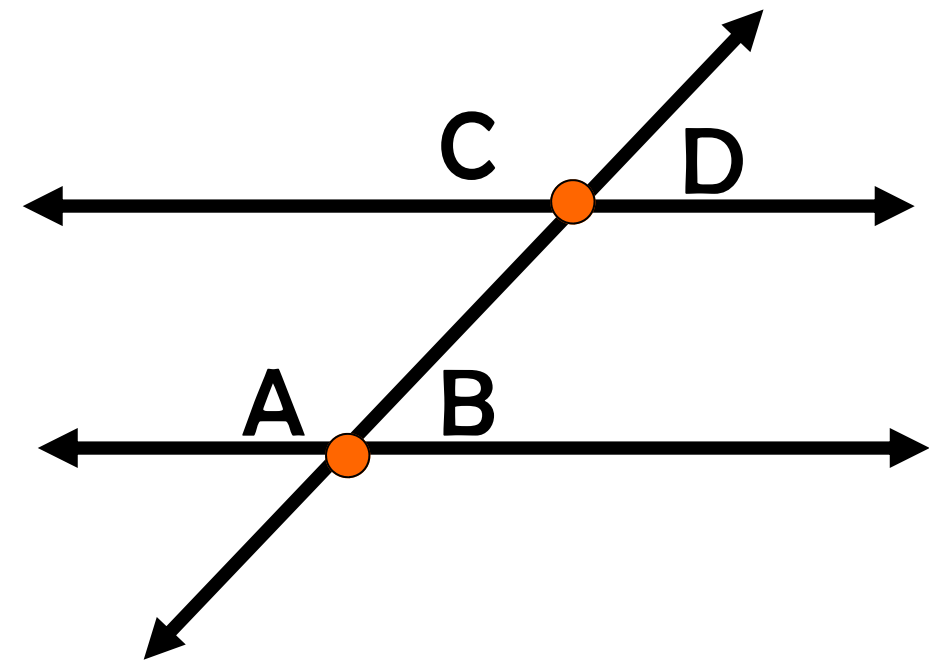
Corresponding angles are created where a **transversal** (A line that cuts across two or more (usually parallel) lines) crosses other lines.

The **corresponding angles** are the ones at the same location at each **intersection** (The point where two lines meet or cross).

Corresponding angles have the same degree measurement

## Example:

$\sphericalangle A$  and  $\sphericalangle C$  = corresponding angles.  
 $\sphericalangle B$  and  $\sphericalangle D$  = corresponding angles.



# Complementary Angles

Angles that form a right angle are called **complementary** angles.

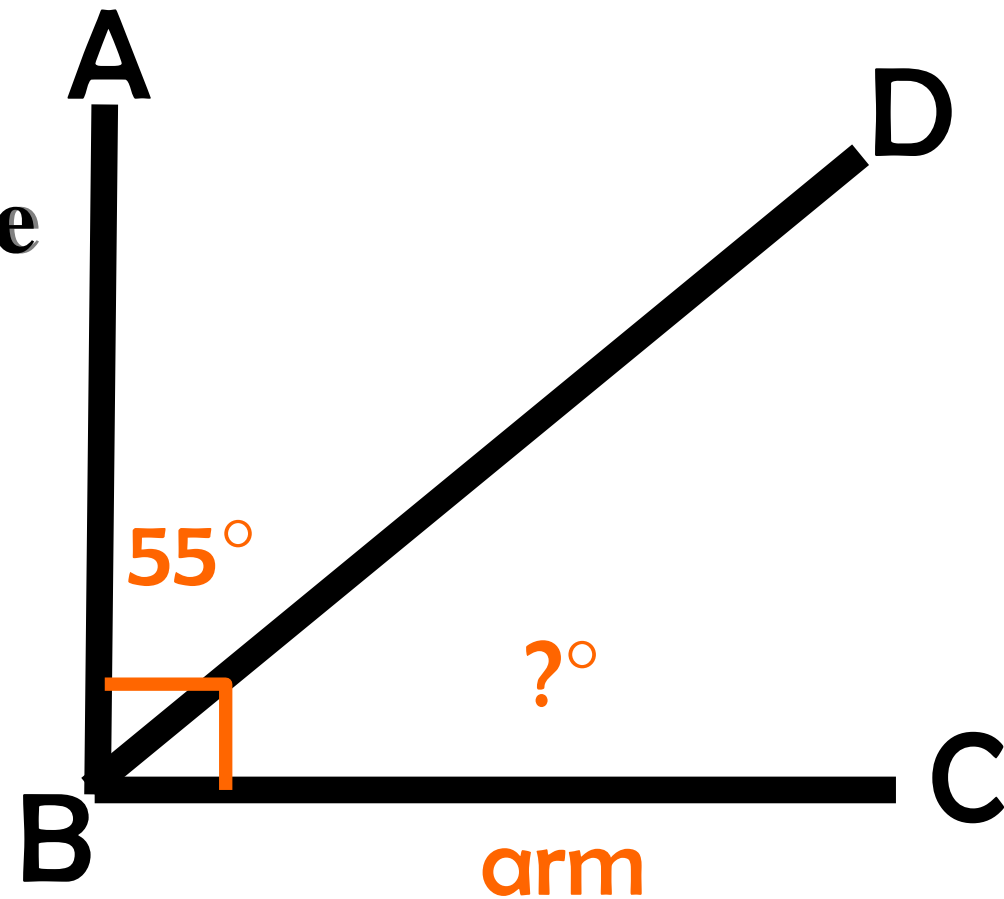
Complementary angles **add up to  $90^\circ$**

**Example:**  $\angle ABD$  forms a right angle with  $\angle DBC$ .

$$90^\circ - 55^\circ = 35^\circ$$

So,  $\angle DBC = 35^\circ$

$35^\circ$  is said to be the **complement** of  $55^\circ$



# Vertical Angles

Vertical angles are the angles that are **opposite** each other when two lines intersect .

Vertical angles have the same degree measurement.

**Example:**

$\angle$  AEB  
 $\angle$  BEC

$\angle$  and DEC = vertical  
 $\angle$  and AED = vertical

