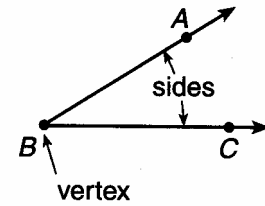


Complementary, Supplementary and Congruent Angles :

Angles

Two rays that share the same endpoint form an angle. The shared point is called the vertex. The rays are called sides.



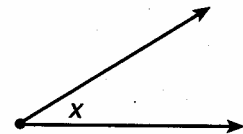
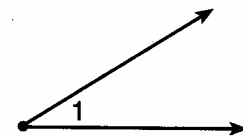
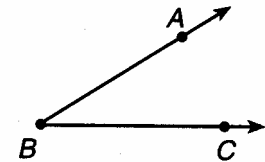
Angles can be named in different ways:

- ❖ By the letter of the vertex or by the letters of the three points that form it (with the vertex listed in the middle)

$$\angle B, \angle ABC, \text{ or } \angle CBA$$

- ❖ By the number or small letter in its interior

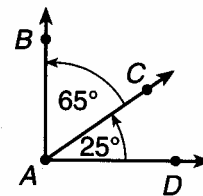
$$\angle 1 \text{ or } \angle x$$



Complementary angles

Complementary angles are two angles whose measures have a sum of 90° .

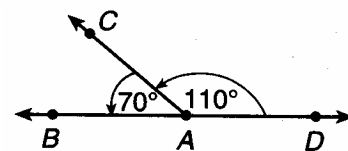
$\angle BAC$ and $\angle CAD$ are complementary angles.



Supplementary angles

Supplementary angles are two angles whose measures have a sum of 180° .

$\angle BAC$ and $\angle CAD$ are supplementary angles.



Congruent angles

Congruent angles are angles that have the same measure. (\cong means congruent.)

$\angle BAC$ and $\angle CAD$ are congruent angles.

