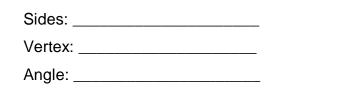
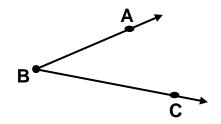
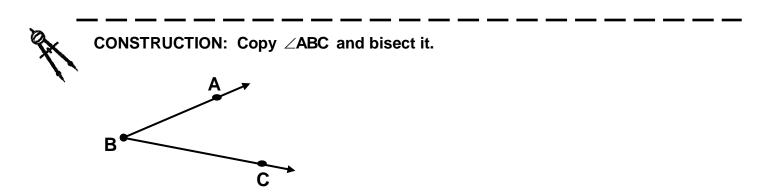
<u>Content Objective</u>: I will be able to name (using correction notation) and classify angles by their measures.

TERM	DESCRIPTION	EXAMPLE	HOW TO NAME IT
RAY	An object consisting of one and continues in one direction.		
ANGLE	An object consisting of two (called sides) with a common (called a vertex).		

EXAMPLE 1: Name each of the following:







EXAMPLE 2:

a. How does the diagram in Example 1 differ from the diagram shown below?

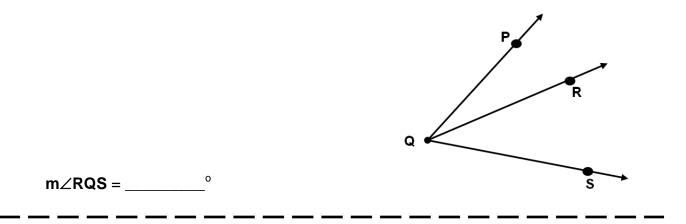


In item d. below, you would read "m \angle QPR" as "the measure of angle QPR".

d. If the $m \angle QPR = 68^{\circ}$ and $m \angle RPS = 25^{\circ}$, what is the $m \angle QPS$?

ANGLE ADDITION POSTULATE If R is in the interior of $\angle PQS$, then $m \angle PQR + m \angle RQS = m \angle PQS$. If $m \angle PQR + m \angle RQS = m \angle PQS$, then R is in the interior of $\angle PQS$.

EXAMPLE 3: If $m \angle PQS = 77^{\circ}$ and $m \angle PQR = 32^{\circ}$, then find $m \angle RQS$.



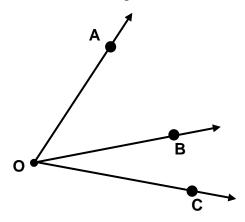
EXAMPLE 4:

If $m \angle AOC = 70^\circ$, $m \angle AOB = (x + 10)^\circ$, and $m \angle BOC = x^\circ$, find the following values:



m∠BOC = ____°

m∠AOB = ____°



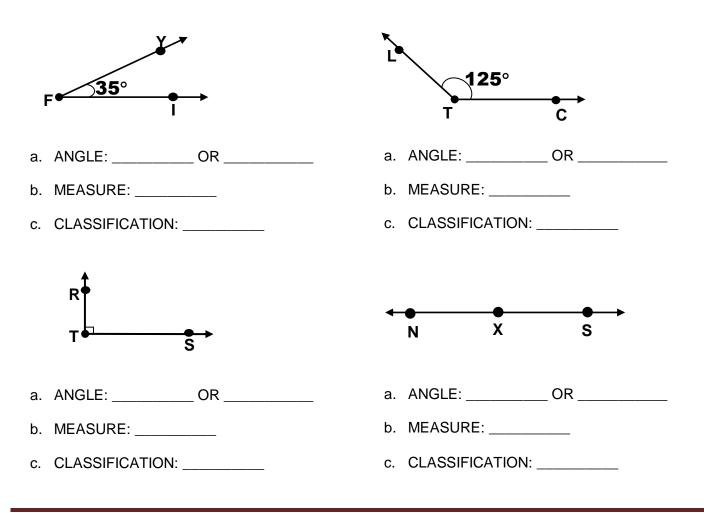
CLASSIFICATIONS OF ANGLES

TERM	DESCRIPTION	EXAMPLE
	An angle that has a degree measure <i>less than 90°.</i>	
	An angle has a degree measure equal to 90°.	
	An angle has a degree measure greater than 90° and less than 180°.	
	An angle has a degree measure <i>equal to 180°</i> .	

EXAMPLE 5: For each of the following angles:

- a. Name it in two different ways
- b. Tell whether its measure is $< 90^{\circ}$, $> 90^{\circ}$, $= 90^{\circ}$, or $= 180^{\circ}$

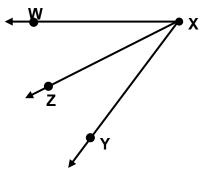
c. Classify it.

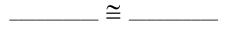


TERM	DESCRIPTION	EXAMPLE
ANGLE BISECTOR	A ray, line, or line segment that divides an angle into two angles.	

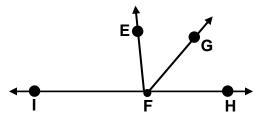
EXAMPLE 6:

If \overrightarrow{XZ} is an angle bisector of $\angle WXY$, name the two congruent angles that it forms. Use congruent marks to show which angles in the diagram are congruent.





EXAMPLE 7: FG bisects \angle **EFH**. Given the following expressions, set up and solve equations to determine the value of x.



a. m∠EFG = (5x - 10)° m∠GFH = (3x + 25)° b. m∠GFH = $(3x + 20)^{\circ}$ m∠EFH = $(4x + 80)^{\circ}$

x = _____

x = _____