

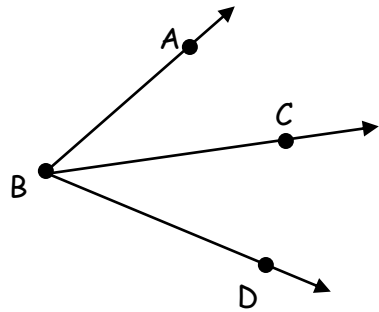
# ANGLES AND ANGLE BISECTORS



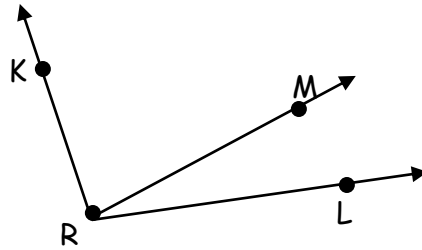
NAME \_\_\_\_\_ PERIOD \_\_\_\_\_

NAME THE ANGLE THAT IS MISSING ITS MEASUREMENT. THEN FIND THE MEASURE OF THE MISSING ANGLE. **PICTURES ARE NOT DRAWN TO SCALE!!! DO NOT USE A PROTRACTOR**

1.  $m\angle ABC = 45^\circ, m\angle ABD = 80^\circ$

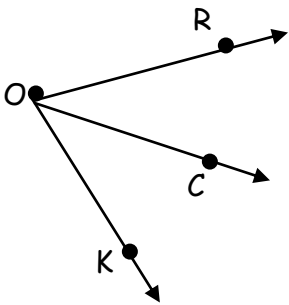


2.  $m\angle KRL = 109^\circ, m\angle MRL = 32^\circ$



NAME THE ANGLES THAT ARE CONGRUENT GIVEN THE ANGLE BISECTOR. THEN FIND THE MISSING ANGLE MEASURES.

3.  $\vec{OC}$  is an angle bisector of  $\angle ROK$ .



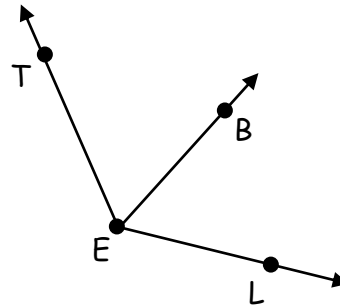
CONGRUENT ANGLES:

If  $m\angle ROC = 42^\circ$ :

$m\angle KOC =$

$m\angle ROK =$

4.  $\vec{EB}$  is an angle bisector of  $\angle TEL$ .



CONGRUENT ANGLES:

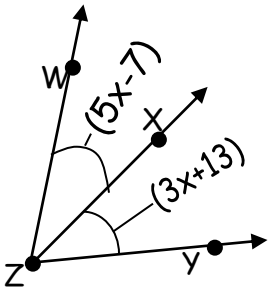
If  $m\angle TEL = 122^\circ$ :

$m\angle TEB =$

$m\angle BEL =$

USE ALGEBRA TO SOLVE THE FOLLOWING.

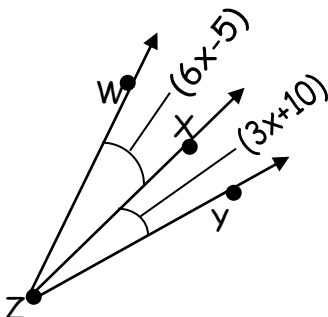
5.



$\vec{ZX}$  is an angle bisector of  $\angle WZY$

- Find  $x$
- Find  $m\angle WZX$
- Find  $m\angle XZY$
- Find  $m\angle WZY$

6.



$\vec{ZX}$  is an angle bisector of  $\angle WZY$

- Find  $x$
- Find  $m\angle WZX$
- Find  $m\angle XZY$
- Find  $m\angle WZY$