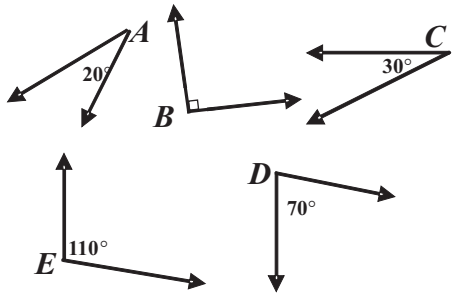
NAME_____

Module 8 **Points, Lines, Angles, and Triangles**
Lesson 3 **Angle Relationships and Parallel Lines**

Guided Practice 8.3

Set 1

1. Name one pair of complementary angles and one pair of supplementary angles.



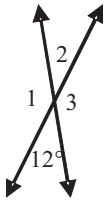
$\angle A$ and $\angle D$ are complementary.
$\angle E$ and $\angle D$ are supplementary.

2. Find the measure of the complement and supplement of an angle with each of the following measures: 15°, 62°, and 140°.

15°: Comp, 75°; Supp, 165°
62°: Comp, 28°; Supp, 118°
140°: No complement; Supp, 40°

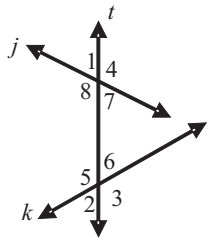
Set 2

1. Find $m\angle 1$, $m\angle 2$, $m\angle 3$.



$m\angle 1 = 168°$
$m\angle 2 = 12°$
$m\angle 3 = 168°$

2 Lines j and k are intersected by transversal t.
Identify the special angle pair name for each pair below.

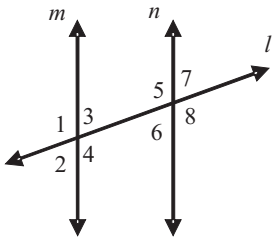


$\angle 3$ and $\angle 7$
$\angle 4$ and $\angle 2$
$\angle 8$ and $\angle 6$

$\angle 3$ and $\angle 7$: Corresponding
$\angle 4$ and $\angle 2$: Alternate exterior
$\angle 8$ and $\angle 6$: Alternate interior

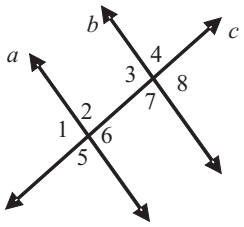
Set 3

1 $m \parallel n$ and line l is a transversal. If $m\angle 5$ is 114°, then find $m\angle 4$, $m\angle 1$ and $m\angle 2$.



$m\angle 4 = 114°$
$m\angle 1 = 114°$
$m\angle 2 = 66°$

2 Transversal c cuts parallel lines a and b. If $m\angle 6 = 112°$, find the measures of the missing angles.



$m\angle 1 = 112°$
$m\angle 2 = 68°$
$m\angle 3 = 112°$
$m\angle 4 = 68°$
$m\angle 5 = 68°$
$m\angle 7 = 68°$
$m\angle 8 = 112°$