

TOPIC: **1.5 Describe Angle Pair Relationships**

NAME:

DATE:

ESSENTIAL QUESTION: **How do you identify complementary and supplementary angles?**

QUESTIONS:

VOCABULARY:

Complementary Angles

Supplementary Angles

Linear Pair of Angles

Vertical Angle Pair

A1. Sketch and label each of the following described angle pairs.

a. Vertical Angles 1 and 2. b. Complementary Angles $\angle B$ and $\angle Y$

c. Adjacent Supplementary Angles $\angle MNO$ and $\angle PNM$

d. Linear Pair of Angles, $\angle XYZ$, $\angle WYZ$

SUMMARY:

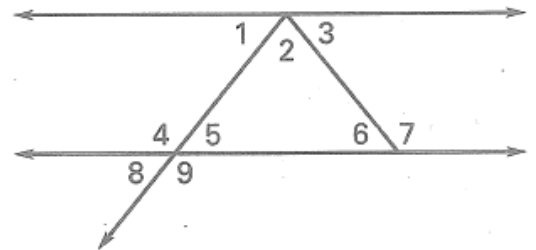
QUESTIONS:

A2. Give the supplement angle measure and the complement angle of the angle measures below.

- | | | | |
|-----------------|-------|----------------|-------|
| a. 80° | supp: | b. 44° | supp: |
| | comp: | | comp: |
| c. 65.7° | supp: | d. 115° | supp: |
| | comp: | | comp: |

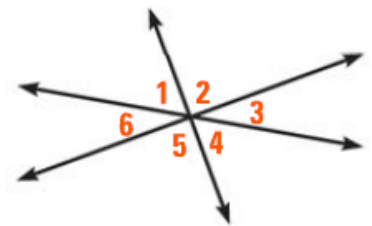
A3. Use the diagram to describe the type of angle pairs.

- a. $\angle 4$ and $\angle 5$
- b. $\angle 3$ and $\angle 6$
- c. $\angle 5$ and $\angle 8$
- d. $\angle 1$ and $\angle 2$ and $\angle 3$

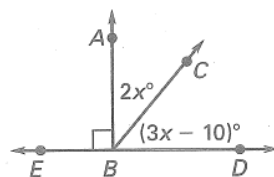


A4. Use the figure to find the numbered angles if $m\angle 6 = 22^\circ$ and $m\angle 4 = 68^\circ$.

- | | | |
|---------------|---------------|---------------|
| $m\angle 1 =$ | $m\angle 2 =$ | $m\angle 3 =$ |
| $m\angle 4 =$ | $m\angle 5 =$ | $m\angle 6 =$ |



A5. Find the value of x.



A6. Find the $m\angle CBD$ using algebra.

