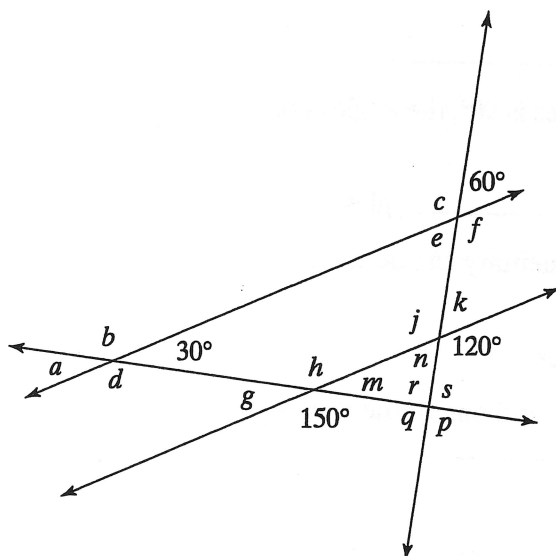# Activity Lab 8-3

Special Pairs of Angles

Use the diagram to find the measure of each angle and to complete
the sentences below.

1. $m\angle a =$ _____ $m\angle b =$ _____ $m\angle c =$ _____ $m\angle d =$ _____

   $m\angle e =$ _____ $m\angle f =$ _____ $m\angle g =$ _____ $m\angle h =$ _____

   $m\angle j =$ _____ $m\angle k =$ _____ $m\angle m =$ _____ $m\angle n =$ _____

   $m\angle p =$ _____ $m\angle q =$ _____ $m\angle r =$ _____ $m\angle s =$ _____

**Complete each sentence using the words complementary, supplementary, vertical, or congruent.
There may be more than one word that applies to each sentence.**

2. $\angle b$ and $\angle a$ are _____ angles.

3. $\angle b$ and $\angle d$ are _____ angles.

4. $\angle g$ and $\angle e$ are _____ angles.

5. $\angle p$ and $\angle r$ are _____ angles.

6. $\angle n$ and $\angle m$ are _____ angles.

7. $\angle n$ and $\angle j$ are _____ angles.

Hint: $\angle d$ and $\angle m$ are *supplementary* angles.
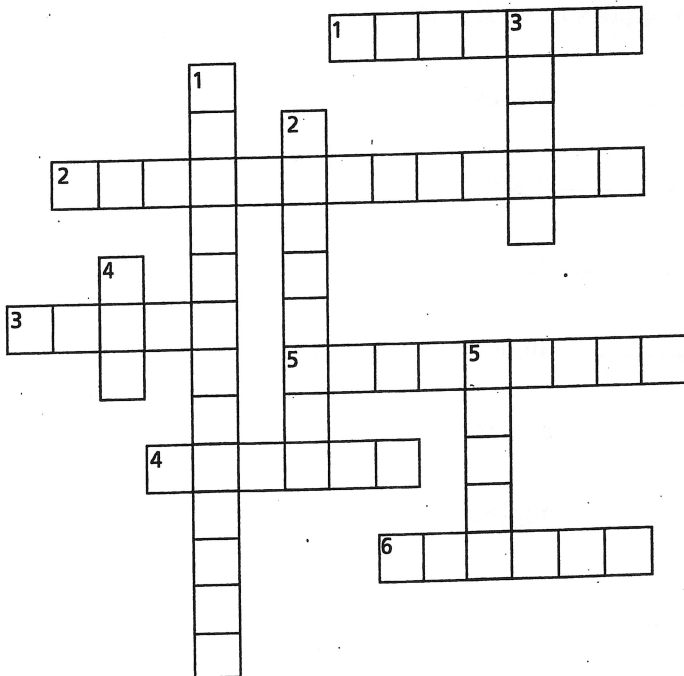
Puzzle 8-3

Fill in the blanks in each sentence to solve the crossword puzzle.

Across:

1. The units used to measure angles are _____.

2. If the sum of the measures of two angles is 90°, the angles are _____.

3. Complementary angles are always _____ angles.

4. The terms complementary and supplementary can be used to describe special pairs of _____.

5. Vertical angles are _____ angles.

6. If two angles are supplementary angles and one of the angles is acute, then the other angle must be _____.

Down:

1. If the sum of the measures of two angles is 180°, the angles are _____.

2. _____ angles are congruent angles formed by intersecting lines.

3. Angles with _____ measures are congruent angles.

4. The _____ of the angles in a triangle is 180°.

5. If two angles are supplementary angles and one of the angles measures 90°, the other angle must also be a _____ angle.