COMPLEMENTARY AND SUPPLEMENTARY ANGLES



1) Define complementary angles



Note: Sometimes it's convenient to name angles in a diagram with a number.

2) Define supplementary angles



 $m \angle 3 + m \angle 4 = 180^{\circ}$

Not pairs of supplementary angles

 $m \angle 4 + m \angle 5 > 180^{\circ}$

5



Find the missing angles.



Tell whether the angles are *complementary*, *supplementary*, or *neither*.



Tell whether the angles are *complementary* or *supplementary*. Then find the value of *x*.



Do you understand?

Use the given information to solve each problem.

Angle 1 and 2 are supplementary.

mÐ1 = 50° and mÐ2 = 3x°

a) Write an equation and find the value of *x*.

b) Use the value of *x* to find the measure of angle 2.

Do you understand?

Use the given information to solve each problem.

Angle 1 and 2 are *complementary*.

$$m \oplus 1 = x^{\circ} and m \oplus 2 = 2x^{\circ}$$

a) Write an equation and find the value of *x*.

b) Use the value of *x* to find the measure of angle 2.

Measuring Angles Angles are usually measured with the use of a PROTRACTOR



USING A **PROTRACTOR** TO DRAW AND MEASURE ANGLES