

Name _____ Date _____



Skills Maintenance

Writing Equations to Solve Word Problems

Activity 1

Write the equation that you would use to solve each of the word problems. You do not need to solve the problem.

Model

If the difference between two numbers is 60 and one number is 4 times bigger than the other number, what are the two numbers?
Write the equation. $4x - x = 60$

1. If the sum of two numbers is 150 and one number is 20 more than the other number, what are the two numbers?

Write the equation. _____


2. If the sum of four numbers is 100 and each of the numbers is the same, what are the four numbers?

Write the equation. _____

3. If the difference of two numbers is 500 and one number is three times greater than the other number, what are the two numbers?

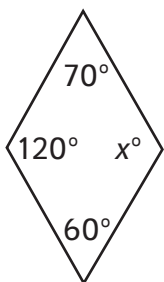
Write the equation. _____

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 **Problem-Solving Activity**
Angles of Quadrilaterals

Tell if there is enough information to find the missing angle measures. If there is enough information, use algebra to find the missing angle measures.

1.



Is there enough information to find the measure of x ?

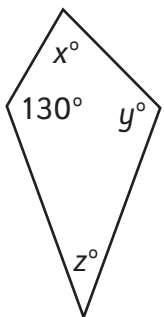
(circle) YES or NO

If there is enough information, write the equation.

Solve the equation.

What is the measure of angle x ? _____

2.



Is there enough information to find the measure of angle z ?

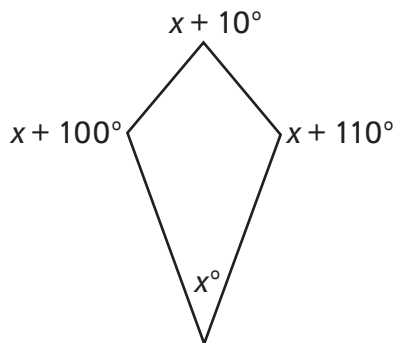
(circle) YES or NO

If there is enough information, write the equation.

Solve the equation.

What is the measure of angle z ? _____

3.



Is there enough information to find the measure of angle x ?

(circle) YES or NO

If there is enough information, write the equation.

Solve the equation.

What is the measure of angle x ? _____