

guided notes

NAME _____

DATE _____

Module 4 Solving Problems Using Linear Equations of One Variable
Lesson 3 Solving Geometry Problems Using Equations of One Variable

Lesson Objective

- Write and solve linear equations of one variable to solve geometry problems about perimeter and angle sums.

_____ is the sum of the lengths of the sides of a polygon.

Three steps for solving a geometry problem are:

- _____
- _____
- _____

An isosceles triangle has _____ sides. The two congruent sides are called _____ and the other side is called the _____.

- 1 The perimeter of a square is 18 m. What is the length of each side?

- 2 Consider a scalene triangle with its perimeter being 33 cm. The 2nd side is twice the length of the 1st, and the 3rd side is 5 cm longer than the 1st. What is the length of the longest side? _____

- 3 The perimeter of a rectangle is 150 cm. Its length is twice its width. Find the length of the rectangle. _____

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The sum of the measures of the angles of a triangle is _____.

Complementary angles are two angles whose measures have a sum of

_____.

Supplementary angles are two angles whose measures have a sum of

_____.

4 The measure of an angle is ten less than the measure of its supplement. Find the measure of the angle. _____

5 In an isosceles triangle, if each base angle measures 60° less than the vertex angle, what is the measure of each base angle? _____

6 In a triangle, the 2nd angle is twice the measure of the 1st. The 3rd angle is three times the measure of the 1st. What is the measure of the largest angle?

