

Name: _____

Date: _____ Per: _____

Lesson 6.2.2 Homework

6-65. Substitute the given solution into the corresponding equation to check it. Then decide if the solution is correct or incorrect. H

a. $5x + 8 = 3x - 2$ Solution: $x = -5$

b. $2(x + 1) + 6 = 20 - 3x$ Solution: $x = 4$

6-66. During this chapter, you will use your new solving skills to solve word problems. Think about and use the strategies you already have to answer the questions below.

a. Andy is 4 years older than Eduardo. If Andy is x years old, write an expression to represent Eduardo's age.

b. In Eduardo's collection, the number of butterflies is 12 more than twice the number of moths. If there are x moths, write an expression to represent the number of butterflies he has.

6-67. Evaluate the expressions $3x - 2$ and $4x + 4$ for the following values of x . When you have found the value for each expression, write a statement using $<$, $>$, or $=$ that shows how the two values are related.

a. $x = 0$

b. $x = -6$

c. $x = 5$

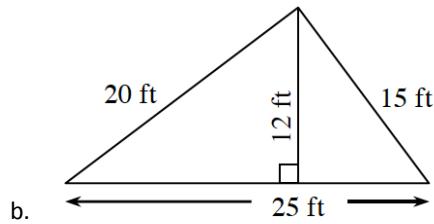
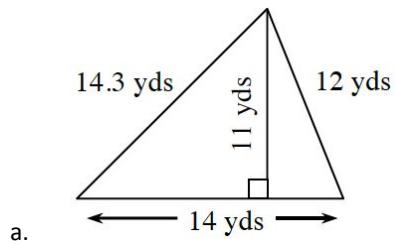
d. $x = -2$

6-68. Victor wants to play "Guess My Number." Use the clues below to figure out his number. Each part is a new game.

a. "When you double my number and subtract 9, you get my original number. What is my number?"

b. "When you double my number and add 5, you get 17. What is my number?"

6-69. Find the perimeter and area of each triangle below.



6-70. To solve the following problem, use the 5-D Process. Define a variable and write an expression for each column of your table.

In the first three football games of the season, Carlos gained three times as many yards as Alston. Travis gained ten yards more than Carlos. Altogether, the three players gained a total of 430 yards. How many yards did Carlos gain?