6.3 More Modeling Equations

Name:_____

Directions: Circle the equation that best fits the given situation. Then SOLVE the equation.

1) Adding 3 to twice the sum of 12 and -4 times a number is -16. What's the number? a. $3 + 2(-4n + 12) = -16$ c. $3 + 2(12) + (-4n) = -16$ b. $2(-4n) + 12 + 3 = -16$ d. $3 + 2(12) - 4n = -16$ Solution:	2) AutoDudes sell a car $\frac{1}{8}$ off of its regular price. The cost of the car after the discount is $21,000. How much is the car normally? a. $c - \frac{1}{8}c = 21000$ c. $c + \frac{1}{8} = 21000$ b. $c + \frac{1}{8}c = 21000$ d. $\frac{1}{8}c - c = 21000$ Solution:
3) A rectangle has a length that is twice as long as the width. The perimeter is 162 cm. What is the width? a. $2w + 2w + 2w + 2w = 162$ c. $2(w + 2) - 2w = 162$ b. $2(w + w + w + w) = 162$ d. $2(2w) + 2w = 162$ Solution:	4) Nacho-Business is selling bags of chips for 1/3 less than they usually do. A bag now costs $2.20. How much is a bag normally? a. $c + \frac{1}{3}c = 2.20$ c. $c - \frac{1}{3} = 2.20$ b. $1 - \frac{1}{3}c = 2.20$ d. $c - \frac{1}{3}c = 2.20$ Solution:

Directions: For each situation make an equation, define your variables and solve your equation.

5) The sum of three consecutive integers is -18. Find the three integers.

    Equation: **Answer:**

6) Mr. Sullivan sells cookies he makes from home. He sells them for what they cost to make, plus one third of that cost. If a cookie costs $1.60, how much does it cost Sully to make it?

    Equation: **Answer:**

7) The length of a rectangle is 15 *cm* more than the width. Find the length of each side of the rectangle if the perimeter is 62 *cm*.

    Equation: **Answer:**