

Name _____

Date _____

Homework #18

Period _____

1) If n is an integer, which equation can be used to find three consecutive integers whose sum is 18?

(1) $n + (n + 1) + (n + 3) = 18$

(2) $n + (n + 1) + (n + 2) = 18$

(3) $n + (n + 2) + (n + 4) = 18$

(4) $n + (n + 2) + (n + 3) = 18$

2) The quotient of forty and the product of a number and negative eight.

(1) $\frac{40}{x} - 8$

(2) $\frac{40}{-8x}$

(3) $\frac{-8x}{40}$

(4) $-320x$

3) Twice a number, decreased by fifty-eight

(1) $2(x - 58)$

(2) $2x - 58$

(3) $2x + 58$

(4) $2(x + 58)$

4) A number subtracted from -20

(1) $-20x$

(2) $-20 - x$

(3) $x - (-20)$

(4) $-20 - x$

5) Five times the sum of a number and negative three.

(1) $5 + x + (-3)$

(2) $5x - (-3)$

(3) $5x - 3$

(4) $5(x - (-3))$

6) If Tim's age is represented by T , which inequality represents the statement "Tim is at least 21 years old"?

(1) $T < 21$

(2) $T > 21$

(3) $T \leq 21$

(4) $T \geq 21$

7) A correct translation of "five **is less than** twice the value x " is

(1) $2x < 5$

(2) $5 < 2x$

(3) $2x - 5$

(4) $5 - 2x$

8) A correct translation of $4x - 8 = 6 - x$ is

- (1) Four times a number minus eight equals that number less than six
- (2) Eight less than four times a number is equal to six less than that number
- (3) Four times a number minus eight equals that number minus six
- (4) Four times a number minus eight equals six less than that number

9) Find three consecutive odd integers such that the sum of the second and the third integers is four times the first.

10) The length of a room is seven less than twice the width.

- (a) Draw a diagram of the room that includes the expressions for length and width.
- (b) Find the area in simplest form
- (c) Find the perimeter in simplest form

11) Jamel has a total of 68 coins including pennies, nickels, dimes, and quarters. He has twice as many nickels as pennies. He has three more quarters than pennies. The number of dimes is five less than than triple the number of pennies. How many of each coin does Jamel have. How much money does Jamel have? (How much are pennies, nickels, dimes and quarter worth?)