MONDAY

Solve and justify each step.

$3x - 13 = 7(x + 2) - 4(x - 7)$

Solve and write your answer in interval notation.

$$-53 \le 9x - 1 < -26$$

Solve and justify each step.

$3(2x + 2) - 3x = 6 + 3x$

Solve and write your answer in interval notation.

$$6x - 7 \ge 5$$

TUESDAY

Azia completes a 50-mile race by walking and running. She walks at a constant speed and runs at a different constant speed (both in miles per hour). This is modeled by **3x + 8y = 50.** Interpret the meaning of the following:

- **50:**
- **3:**
- **x:**
- **y:**
- **8**

The sum of two consecutive odd integers is 148. Find the numbers.

A rectangle has a length six inches less than twice its width. If the perimeter of the rectangle is 54 inches, find the dimensions.

Solve for y: **Ax + By = C**

Solve for p: $r = \frac{4}{3}(p - q)$

Avery buys a car. She pays a constant amount each month. The amount owed on her car can be modeled by **y=32000 – 520x.** Interpret the meaning of the following:

- y
- x
- 32000
- 520

WEDNESDAY

Solve the inequalities and graph. Write the answers in interval notation.
$$2(x + 3) \geq 4(x - 1)$$

Solve the inequalities and graph. Write the answers in interval notation.
$$5x + 24 > 2(x - 9) - 3x$$

Solve and graph the compound inequality. Write your answers in interval notation.
$$-4x - 11 > 5 \; or \; 8x - 7 > 9$$

Solve and graph the compound inequality. Write your answers in interval notation.
$$-2x - 1 < 17 \; or \; 1 - x \geq 4$$

Solve and justify each step.
$$-5(x - 2) - (x + 2) = 50$$

Solve and justify each step.
$$3w - (7w + 12) = 2(w - 3)$$

Brelynn and Dilan had to log volunteer hours. Dilan volunteered one more than three times the number of hours Brelynn did. Together they volunteered for 45 hours. How many hours did Dilan volunteer?

THURSDAY

Work the test review again!!!
Check your answers!