**Homework Set April 16th - April 20th** **Name_____Block____**

***Remember to show ALL work to receive credit!***

## MONDAY HOMEWORK

1. Solve & graph the solution set: $16 - (-2) - 3x > 22$

2. Solve: $5y - 5(2y + 6) = 15$

3. Solve: $11 = 9x + 5x + 2x - 5x$

4. A tuition bill for school states that Leslie owes $438. She wants to pay off her bill in 6 months. Write and solve an inequality that gives the least amount she can repay each month.

5. The sum of two numbers is 24. The larger number is three times the smaller number. What are the numbers? Write and equation and solve.

## TUESDAY HOMEWORK

1. Graph each inequality on a number line: a) $3 \leq x$ b) $-x < -7$

2. Write an inequality and solve: Mark earns $363 a week. Donovan works for $8.25 an hour. For how many hours must Donovan work to make as much as or more than Mark?

3. Write an equation and solve: Maya is 66 inches tall. This is 20 inches less than two times Monica's height. How tall is Monica?

4. $-10 = 9(\frac{2a}{9} + -6)$

5. $-4(\frac{a}{2} - 2) = 26$

## WEDNESDAY HOMEWORK

1. Solve and graph on a number line: $5 \geq \frac{x + 2}{3}$

2. What is the interest on a $2000 loan for 14% interest for ½ year? How much does you owe for the loan?

3. A baseball player hit a ball at the speed of 8,000 feet per ***minute***. What was the speed of the ball and feet per ***hour***?

4. Yawa bought $5\ \frac{3}{4}$ dozen donuts. She paid $55 for her purchase. If there were 12 donuts in each dozen, what was the cost per donut? Round to the nearest hundredth if necessary.

5. If a truffala tree casts a shadow that is 12 ft. long and it is 18 ft. tall. How tall is the Lorax standing next to the tree with a shadow of 2.5 ft?

## THURSDAY HOMEWORK

1. $14 - 18 - (4 - (3^3 + 18))$

2. Three-fifths of a number increased by 45 is 90, what is the number?

3. Find the area and circumference of the circle if the diameter is 50ft.

4. **Write an equation and solve:** Jack has $145 and his savings account. He earns $36 a week mowing lawns. If Jack saves all of his earnings, after how many weeks will he have $433 saved?

5. Find the radius of a circle with an area of 1962.5 $cm^2$