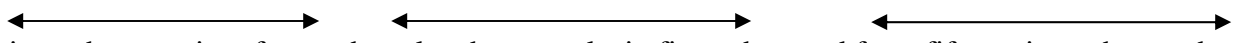


Math A2 Homework: Week of 9-17 to 9/21

Monday, Sept 17

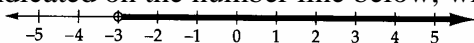
- Find and graph the solution set of each inequality:
 - $2 - x > 4$
 - $x + 3 \geq 9 - 2x$
 - $3(x - 4) < 2x - 15$
- Five times the quantity of a number plus three results in five subtracted from fifteen times the number.
- The sum of $5x$ and $2x$ is seven less than 70. What is the value of x ?
- Solve for x : $3(x + 6) = 28 - 2x$
- Solve for y : $by + th = m$
- Eight more than the quotient of a number and four results in 16. Find the number.
- The length of a rectangle is 4 more than twice its width. If the perimeter is 26, what are the dimensions of the rectangle?
- Study for Quiz Tomorrow**

Tuesday, Sept 18 – Quiz Today.

Wednesday, Sept 19

- Complete worksheet from class if not completed already.
- Solve the following system of equations graphically and CHECK:
 - $y = -3x - 4$
 $y = 2x + 1$
 - $y = 2x - 9$
 $6x + 3y = -15$
- Solve for w : $2w + 3x = z$
- Solve for a : $3(a - 5) = 2(2a + 1)$
- Six more than 4 times a whole number results in 60. Find the value of the number.
- Which statement is logically equivalent to “If the traffic light is red, then the cars stop”?
 - If the traffic light is not red, then the cars do not stop.
 - If the cars stop, then the traffic light is red.
 - If the cars do not stop, then the traffic light is not red.
 - If the traffic light is not red, then the cars stop.
- Solve for s : $4(3s - 5) = 5(2s + 4)$

Thursday, Sept 20

- The width of a rectangle is 8 less than three times the length. The perimeter of the rectangle is 32 cm. What is the width of the rectangle?
- Solve the systems of equations graphically and check:
 - $y = \frac{3}{2}x - 3$
 - $3x - y = 8$
 - $y = \frac{1}{2}x + 1$
 - $y = x + 2$
- Given the solution set indicated on the number line below, write the solution as an inequality.
- Six less than ten times a number is equal to 104. Find the number.
- Solve for x and graph the solution set on a number line: $4 - 3x \geq 16 + x$
- Louis is four times as old as her son Dan. The sum of their ages is 40. How old is Dan?

Friday Homework on the back of this sheet

Friday, Sept 21

1. Solve the following systems of equations using the addition/elimination technique.

a) $4x - y = 10$

$2x + 3y = 12$

b) $5x + 3y = 14$

$3x + y = 6$

2. Solve the following system of equations graphically and check: $y - x = 6$
 $y = 2x + 7$

3. Solve for x and check: $6x + 5(x - 5) = 52$

4. Solve the inequality and graph on a number line. $3x - 5(x + 1) > 13$

5. Solve for b. $2b - ac = d$

6. One number is twice the other, and their sum is 12 more than the lower number. What are the numbers?

Have a fantastic weekend!! ☺