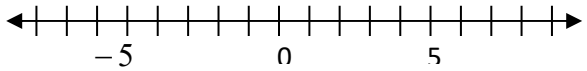
Algebra Foundations Quiz #31 Week 12 Monday **Name**_____

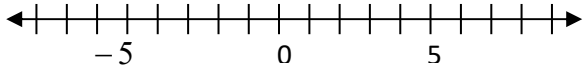
SHOW ALL WORK to receive full credit.

Graph the following inequalities on the number line. (2 points each)

1. $2 > p$

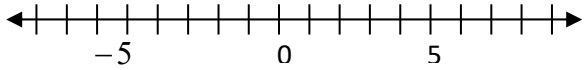


2. $x < -1$

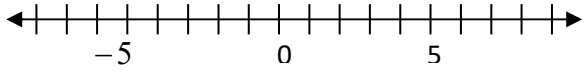


Solve and graph the following inequalities on the number line. (4 points each)

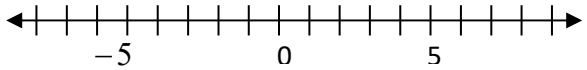
3. $2 - 5x \geq 17$



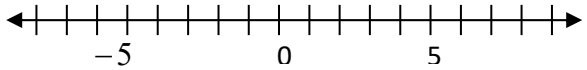
4. $2y + 1 < -3$



5. $2(8 + x) > 22$



6. $3(4x + 5) \geq 4x + 31$



20 points

Use PEMDAS to simplify the following expressions. (3 points each)

7. $(10^2 - 4 \cdot 8) \div (8 + 9) =$ _____

8. $3 \cdot 9^2 - 1 =$ _____

9. $(17 - 7) \div 5 + 1 =$ _____

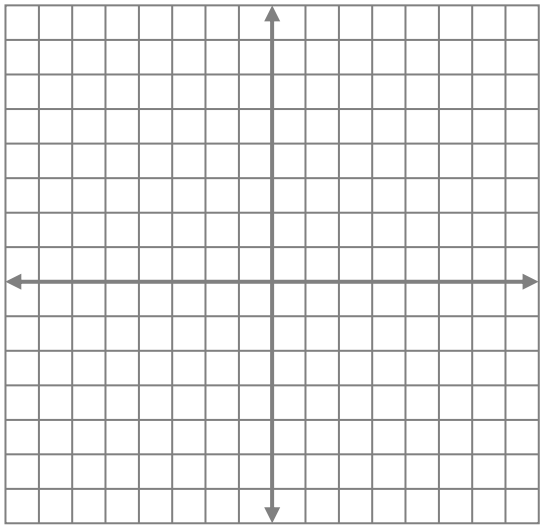
10. If P= 2L + 2W, then find P when L=12 ft. & W= 8 ft. _____

On the same grid, graph the line and label your lines a-c. (4 points each)

11. Line "a" $y = -\frac{1}{4}x - 1$

12. Line "b" $y = \frac{1}{2}x$

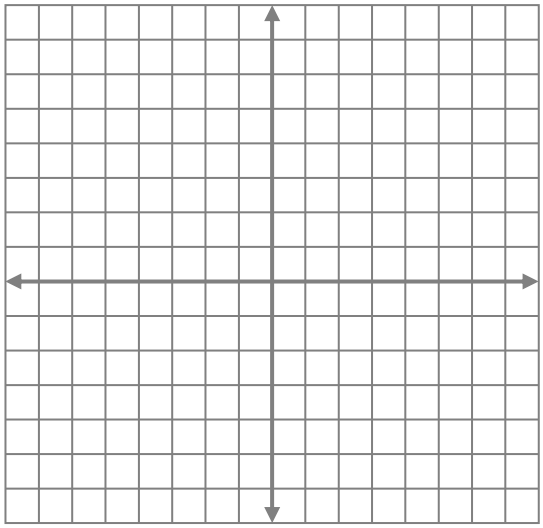
13. Line "c" $y = x + 4$



Graph both lines and label the point of intersection: (6 points)

14. $y = 2x + 3$ *and* $y = x - 1$

Point of intersection: _____



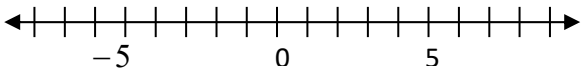
30 points

Algebra Foundations Quiz #32 Week 12 Tuesday **Name**_____

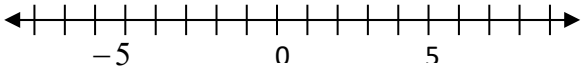
SHOW ALL WORK to receive full credit.

Solve and graph the following inequalities on the number line. (4 points each)

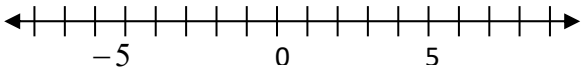
1. $5 - 3x \leq -10$



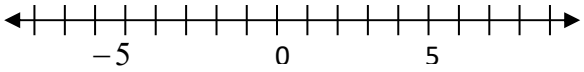
2. $41 > 6x + 5$



3. $17x + 4 \leq 8x - 5$



4. $6(2x + 4) - 3 > 3(2x - 1)$



Use PEMDAS to simplify the following expressions. (3 points each)

5. $8 - 10 + 5 - 4 =$ _____

6. $13 - 2(5 - 2)^2 \div 3 =$ _____

7. $5 + 12 \div 3 \cdot 2 - 7 =$ _____

8. $7 + 4 \cdot \frac{15}{3} - 1 =$ _____

28 points

Evaluate the formula. (5 points each)

9. If $SA = 6s^2$, then find SA when $s = 5$ cm. SA = _____

10. If $A = \frac{1}{2}h(b_1 + b_2)$, then find A when $h = 8\ cm, b_1 = 5\ cm$, and $b_2 = 11\ cm$. A= _____

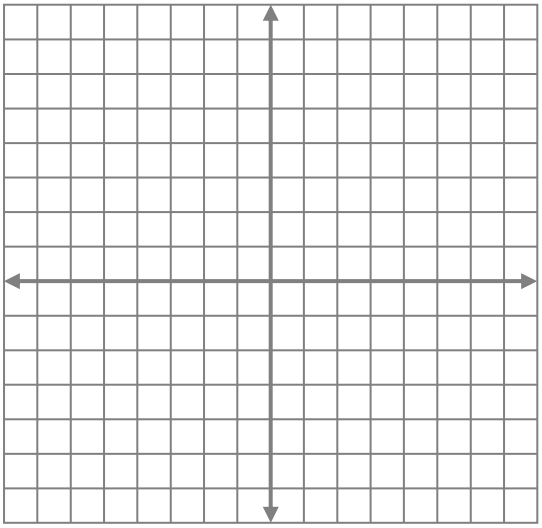
Complete the domain range table. (6 points)

11.

x	$y = 2x^2 - x + 1$	*y*
–4		
0		
3		

Graph both lines and label the point of intersection. (6 points)

12. $y = \frac{5}{4}x$ *and* $y = \frac{1}{2}x + 3$



Point of intersection: _____

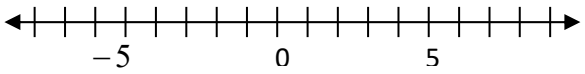
22 points

Algebra Foundations Quiz #33 Week 12 Friday **Name**_____

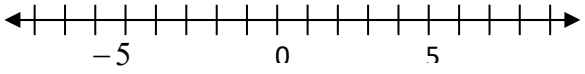
SHOW ALL WORK to receive full credit.

Solve and graph the following inequalities on the number line. (4 points each)

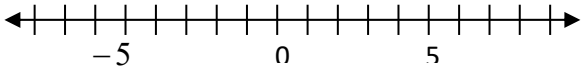
1. $3 - 2x \leq 9$



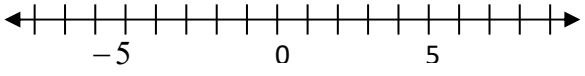
2. $4x - 5 < 3$



3. $-12 > 4(4x + 5)$



4. $6x + 7 \leq 10x - 9$



Use PEMDAS to simplify the following expressions. (3 points each)

5. $12 + 6 \div 3 \cdot 2 =$ _____

6. $4 + 3(7 - 1)^2 =$ _____

7. $16 + 7 - 8 + 2 =$ _____

8. $(6 + 3)^2 \div 9 =$ _____

28 points

Evaluate the formula. (4 points)

9. If $A = \frac{1}{2}bh$, then find A when $b = 14$ cm. and $h = 5$ cm. A = _____

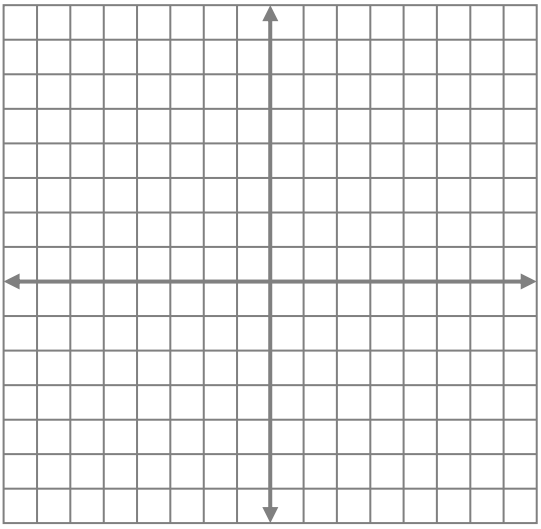
Complete the domain range table. (6 points)

10.

x	$x^2 + 4x - 12$	y
0		
2		
-3		

Graph both lines and label the point of intersection. (6 points)

11. $y = -3x - 6$ *and* $y = -\frac{1}{3}x + 2$



Point of intersection: _____

Add or Subtract the following decimals. You must line them up vertically and show your work. (3 points each)

(12.) $\$31.25 + \$28.65 + \$5.80 =$ _____

(13.) $458.6 - 279.98 =$ _____

22 points