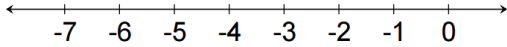

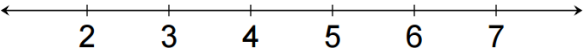
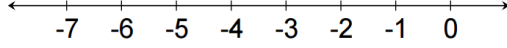


Name \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_

Test 6.1-6.8 – Remember to show your work like we practiced in class to receive credit.

Graph each inequality.

6.7B Graphing Inequalities. Graph the Inequalities	
1) $x > -4$  <p>A number line with arrows at both ends, ranging from -7 to 0. Tick marks are labeled at -7, -6, -5, -4, -3, -2, -1, and 0.</p>	2) $6 \leq x$  <p>A number line with arrows at both ends, ranging from 2 to 7. Tick marks are labeled at 2, 3, 4, 5, 6, and 7.</p>
3) $x < 3$  <p>A number line with arrows at both ends, ranging from 2 to 7. Tick marks are labeled at 2, 3, 4, 5, 6, and 7.</p>	4) $-7 \geq x$  <p>A number line with arrows at both ends, ranging from -7 to 0. Tick marks are labeled at -7, -6, -5, -4, -3, -2, -1, and 0.</p>
6.1 Solving One Step Equations using Addition and Subtraction. You must show your work correctly to receive credit.	
5) $x - 5 = -10$	6) $-12 + x = 17$
7) A pair of shoes is on sale for \$74. This is \$25 less than the normal price $x$ . Write a subtraction equation to represent the situation. Then solve the equation.  Equation: _____	

**6.2 Solving One Step Equations using Multiplication and Division. You must show your work correctly to receive credit.**

8)

$$5x = -20$$

9)

$$-8x = -104$$

10)

$$\frac{x}{7} = 4$$

11) The distance  $d$  that Tyront travels in her car while driving 65 miles per hour for 3 hours is given by the equation  $\frac{d}{3} = 65$ . How far did Tyrone travel?

**6.3 Solving One Step Equations with Rational Coefficients. You must show your work correctly to receive credit.**

12)

$$\frac{1}{4}x = 7$$

13)

$$-\frac{2}{3}x = -16$$

14) How many pillow cases can Vance make with 24 yards of fabric if he needs  $\frac{2}{3}$  yard of fabric to make one pillow case? Write and solve a multiplication equation. Let  $p$  represent the number of pillow cases.

Equation: \_\_\_\_\_

**6.4 Solving Two Step Equations. You must show your work correctly to receive credit.**

14)

$$-\frac{2}{3}x + 5 = -21$$

15)

$$-4x - 7 = -3$$

16)

$$\frac{1}{2}x + 30 = -2$$

17)

$$7 - x = 35$$

18) Tonya had her birthday party at the movies with a total cost of \$154. It cost \$22.75 for the pizza and \$8.75 per friend for movie tickets. Write and solve an equation to represent the situation. Let  $n$  represent the number of friends.

Equation: \_\_\_\_\_

**6.5 Solving More Two Step Equations. You must show your work correctly to receive credit. Solve using different methods.**

19)

$$-3(x + 7) = -12$$

20)

$$5(x - 12) = -180$$

**6.6 Solving One Step Inequalities using Addition and Subtraction. You must show your work correctly to receive credit.**

21)

$$x - 15 > 211$$

22)

$$x + 42 < 69$$

**6.7 Solving One Step Inequalities using Multiplication and Division. You must show your work correctly to receive credit.**

23)

$$30x \leq 120$$

24)

$$-15x > -330$$

25)

$$\frac{x}{-2} \geq 4$$

26)

$$-21 < \frac{x}{7}$$

**6.8 Solving Two Step Inequalities using. You must show your work correctly to receive credit.**

27)

$$3x - 8 < -68$$

28)

$$\frac{x}{5} - 14 \geq -18$$

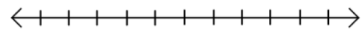
29) Larry wants to buy some shirts that cost \$8, and a hat that costs \$12. Write and solve an inequality to find how many albums  $a$  he can buy if he has to spend more than 60 dollars.

Inequality: \_\_\_\_\_

**6.6 Solving One Step Inequalities using Addition and Subtraction. You must show your work correctly to receive credit.**

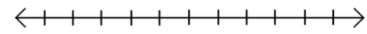
1)

$$x - 15 > 211$$



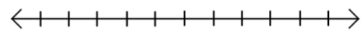
2)

$$x + 42 < 69$$



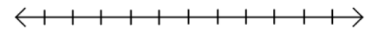
3)

$$2.8 \leq b + 1.3$$



4)

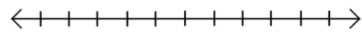
$$y - \frac{1}{4} \leq \frac{2}{5}$$



**6.7 Solving One Step Inequalities using Multiplication and Division. You must show your work correctly to receive credit.**

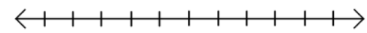
5)

$$\frac{2}{3}x \leq 90$$



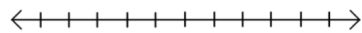
6)

$$-15x > -330$$



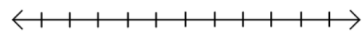
7)

$$\frac{x}{-2} \geq 4$$



8)

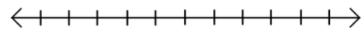
$$-21 < \frac{x}{7}$$



**6.8 Solving Two Step Inequalities using. You must show your work correctly to receive credit.**

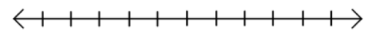
9)

$$3x - 8 < -68$$



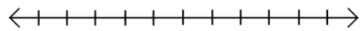
10)

$$\frac{x}{5} - 14 \geq -18$$



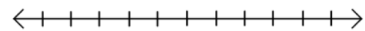
11)

$$\frac{1}{5}x + \frac{1}{3} < \frac{7}{15}$$

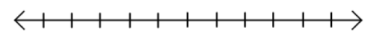


12)

$$-2x + 12 \geq 4$$



13) Larry wants to buy some shirts that cost \$8, and a hat that costs \$12. Write and solve an inequality to find how many albums  $a$  he can buy if he has to spend more than 60 dollars.



Inequality: \_\_\_\_\_