HW #6: Test Review

Name: _____

Date: _____ Block: ____

When graphing inequalities, remember!!!

- Draw a number line. Label three numbers (one to either side of the solution).
- When you multiply or divide by a negative number, you must switch/reverse the inequality sign!
- Use open circle at number for > or <. That means the number is not included in the solution.
- Use closed circle at number for \geq or \leq . That means the number is included in the solution.

Graph the following inequalities.

Write the inequality represented in the graph.

Solve the following inequalities. Then graph your solutions.

5.
$$v+7>-4$$

6.
$$t-4 \ge 5$$

7.
$$1.75 + x < 7.3$$

8.
$$-8.1+s \le 6.5$$

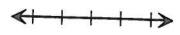
9.
$$7y \le -21$$

10.
$$-6n > 6$$

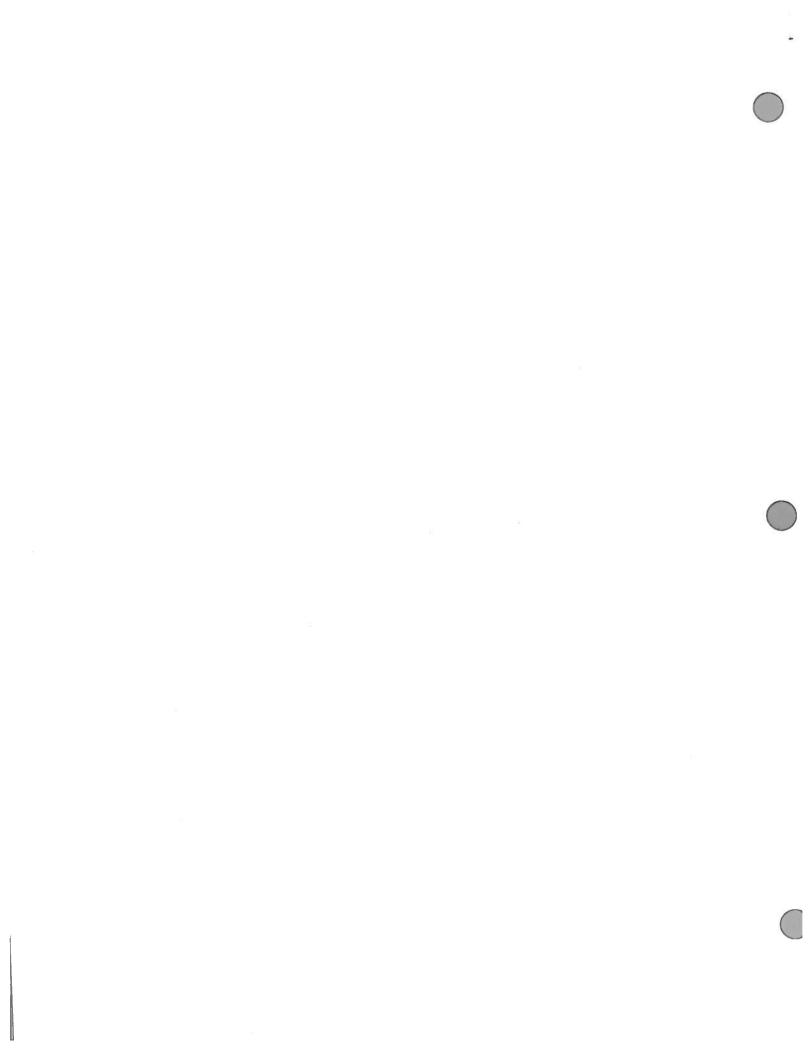
11.
$$\frac{2}{3}$$
r > 24

12.
$$5-6g \le 21$$

13.
$$-6x+8>-3$$



$$\overset{\longleftarrow}{\longleftrightarrow}$$



Equations

14.
$$x+(-8)=9$$

15.
$$n-7=3.65$$

16.
$$0.48g = 2.4$$

17.
$$\frac{1}{5}k = 2\frac{2}{7}$$

18.
$$2r+16=32$$

19.
$$-12 = 4 - x$$

Vocabulary and Introduction to Algebra

- 20. (Circle) the constant(s) and draw a box around the coefficient(s) in the expression: 2x-4rt+8
- 21. Define the following terms:

a)	expression:	
b)	colution:	

22. Place the words given below in the correct column.

Word Bank

sum divided by fewer decreased by twice product total more quotient per difference less increased by times of

Subtraction	Multiplication	Division
	Subtraction	Subtraction Multiplication

23. What is special about the word "than" when translating?

Review Material

24. Give an example of each subset from the Real Number System:

Natural:

Rational:

Whole:

Real:

Integer:

Irrational:

25. Match the name of the property on the left with the example on the right:

Commutative •

• (5)(1) = 5

Associative •

• (4)(3)(0) = 0

Distributive •

• 3(x + 2) = 3x + 6

Property of Zero •

Additive Inverse •

• 4+5 = 5+4

Multiplicative Inverse •

• 3+(4+6) = (3+4)+6

Identity •

• $\frac{1}{3} + 3 = 1$

- 26. Three examples of a perfect square would be: _
- 27. Write an expression and find the sum of the following model: •••+00000=
- 28. What would the number line and chips models of 3 (-2) look like?
- 29. Evaluate:

a.
$$4-(-3)=$$

b.
$$12 + (-7) =$$

c.
$$-4 \cdot -12 =$$

d.
$$-15 \div 3 =$$

Evaluate.

30.
$$4(-2)^2 + 3 + 2 \cdot 5$$

31.
$$\frac{2}{3} + 1\frac{4}{9} =$$

32.
$$-4\frac{2}{5} \div 3\frac{3}{10}$$

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