Block 4 Review Homework #2

Name	Period Date	
Part I – Multiple Choice		
1 . Which of the following word phrases		
describes the expression $x - 7$?		
A. seven minus x		
B. the quotient of <i>x</i> and seven	6 . Which of the following expressions is	
C. the sum of <i>x</i> and seven	2(x+3)-5 in simplest form?	
D. seven less than <i>x</i>		
	A. $2x + 1$	
2 . What is the value of $3x + 4$ when $x = -2$?	B. $2x - 2$	
A28	C. $2x+3-5$	
B10	D. 2 <i>x</i>	
C2		
D. 10	7. What is the first step that should be taken to	
2 The man of L and sight is true. Will still the	solve the equation $4y + 2y = 24$?	
3. The sum of <i>n</i> and eight is two. What is the value of h^2		
	A. Divide both sides of the equation by 4.	
R. 10 B. 6	B. Subtract 2 <i>y</i> from both sides of the	
	equation.	
D_{-10}	C. Divide both sides of the equation by 6.	
	D. Rewrite $4y + 2y$ as $6y$.	
4 . What is the solution of the equation below?	9. What is the solution of the equation below?	
<i>x</i> 2 0	6. What is the solution of the equation below? $2m + 6 - 7m + 1$	
$\frac{-2}{5} = 8$	2m + 0 = 7m + 1	
A. $x = 50$	$\Delta m - \frac{7}{2}$	
B. $x = 30$	$\frac{1}{1} \frac{1}{1} \frac{1}$	
C. $x = 2$	B. $m = 1$	
D. $x = -30$	C. $m = 1\frac{2}{5}$	
	D. $m = 9$	
5. Simplify $5(x-3)$ using the Distributive		
Property.		
A. $5x-3$ C. $5x-15$		
B. $5x + 2$ D. $5 + x - 3$		

Part II - Free Response

1. Write an algebraic expression for the phrase "the product of six and *w*".

2. Is 4 the solution of the equation 2x - 1 = 7?

Evaluate each expression.

3. 3h + 5 when h = 4

_____ **4**. $\frac{x}{3} - 2$ when x = -9 _____

Simplify each expression.

5.
$$5(x+6)$$
 6. $8+2(x-4)-5$

Solve each equation using inverse operations. Show all work and check your solution.

7. 4x = -24 **8.** 3y - 6 = 18 **9.** 2m - 6m = 40

Solve each equation using inverse operations. Show all work and check your solution.

10.
$$3d + 2 = 5d - 16$$
 11. $-3x + 8x + 10 = -20$

Write an algebraic equation for each sentence. Solve the equation.

12.	The sum of y and seventeen is forty-eight.	Equation:	Solution:
13.	Three less than the quotient of <i>x</i> and five is two.	Equation:	Solution:

14. An online video game rental site has a Frequent Gamers Plan. It costs \$30 to join and each video game rental for members costs \$2. Non-members pay a rental fee of \$3.50 per rental. Let g represent the total number of video games rented.

a. Write two expressions, one representing the cost for g rentals by a member and the other representing the cost of g rentals for a non-member.

b. For what number of rentals would both plans cost the same amount? Use words and/or numbers to show how you determined your answer.