

Name: _____
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Date: _____
Equations

Topic: Expressions and Equations
CCSS: 6.EE.B.6 and 6.EE.B.7

Homework Day 4

1. Which expression represents "the product of 8 squared and the difference of a number n and 9"?
 - A. $8^2 \times (n - 9)$
 - B. $8^2 \times (n + 9)$
 - C. $8^2 + 9n$
 - D. $8^2 - 9n$
2. What is the value of the expression below when $a = 4$?
$$6a + 7$$
 - A. 31
 - B. 41
 - C. 53
 - D. 71
3. Which expression is equivalent to $9(4 + r)$?
 - A. $36r$
 - B. $36 + r$
 - C. $13r$
 - D. $36 + 9r$
4. Which number is a solution for the inequality below?
$$5x \leq 20$$
 - A. 90
 - B. 20
 - C. 10
 - D. 0
5. Franklin paid \$152 for 8 DVDs. Each DVD was the same price. Which shows the equation that represents the situation and the price of each DVD?
 - A. $\frac{d}{8} = 152$; \$1,216
 - B. $d - 8 = 152$; \$160
 - C. $d + 8 = 152$; \$144
 - D. $8d = 152$; \$19
6. Which equation best represents the relationship between x and y shown in the table?

x	0	1	2	3
y	1	4	7	10

 - A. $y = x + 1$
 - B. $y = 3x + 1$
 - C. $y = 4x$
 - D. $y = 5x - 1$
7. Josephine bought a CD that cost \$18. She handed the clerk d dollars. She received more than \$30 in change. Which inequality best represents d , the number of dollars she handed the clerk?
 - A. $d > 30$
 - B. $d \geq 30$
 - C. $d > 48$
 - D. $d \geq 48$

8. What is the value of k in the following equation?

$$\frac{1}{4}k = 8$$

- A. 2
B. 16
C. 32
D. 64

9. Describe the expression $15 + (12 \div n)$ in words.

10. The equation $y = x - 2$ describes how the variables x and y are related.

- A. Complete the table of values below for $y = x - 2$. Show all your work.

x	$y = x - 2$	y	(x, y)
2			
4			
6			
8			

- B. Graph $y = x - 2$ on the coordinate grid below.

