

Name:

Date:

Period:

Math 7—Study Guide

1) Compare using $>$, $<$, or $=$.
 -4 $>$ -9

$|-8|$ $<$ $|15|$

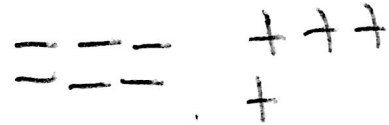
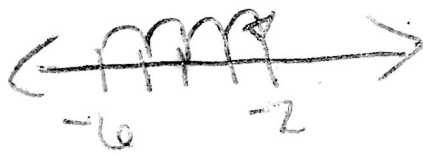
Compare.

2) Give two examples of an integer.

$-1, -3, 5, 7$

no decimals or fractions

3) Model *and* solve using heaps and holes, a number line, or integer chips: $-6 + 4$



4) $-4 + 6 = 2$

5) $-3 + -8 = -11$

6) $-7 - 3 = -10$

7) $5 - 11 = -6$

8) $(-7)(3) = -21$

9) $\frac{-36}{-9} = 4$

Name:

Date:

Period:

10) Penelope solved the following problem: $(-2)(-7) = -14$. Correct her mistake *and* explain why it is wrong.

$$- \times - = +$$

11) Sean's golf scores for four games are: -1 , 2 , -3 , and 1 . Order his golf scores from least to greatest.

$$-3, -1, 1, 2$$

12) The temperature was -14°F and rose 18 degrees. What is the current temperature?

$$-14 + 18 = 4$$

13) $2 \cdot (10 + 5)$

$$\begin{array}{r|l} 2 \cdot 15 & 20 + 10 \\ \hline 30 & \end{array}$$

14) $17 - 6 \cdot 3 + 12$

$$\begin{array}{r} 17 - 18 + 12 \\ -1 + 12 \\ 11 \end{array}$$

Evaluate each expression if $m = 2$ and $y = 5$

15) $3m + y$

$$\begin{array}{r} 3 \cdot 2 + 5 \\ 6 + 5 \\ 11 \end{array}$$

16) $-6y + m$

$$\begin{array}{r} -6 \cdot 5 + 2 \\ -30 + 2 \\ -28 \end{array}$$

17) $5a + 8 + 3a$	5, 3	8	3
18) $3m^2 + 6$	3	6	2

Simplify the expression by combining like-terms. SHOW YOUR WORK!

19) $\underline{4c} - 8 + \underline{2c}$
 $6c - 8$

20) $\underline{-3} + 5c + 6c - \underline{4}$
 $11c - 7$

21) $3(4m - 2)$
 $12m - 6$

22) $-2(2d + 5)$
 $-4d - 10$

Recovery Question: Write an algebraic expression: *five more than a number, n*

$n + 5$