Math 7 Study Guide (Chapter 3 Integers)

Name_____

Sections Covered in the the Textbook

- (3.1) Integers and Absolute Value
- (3.2) Add Integers
- (3.3) Subtract Integers
- (3.4) Multiply Integers
- (3.5) Divide Integers

Vocabulary to Know and Be able to use:

absolute value

additive inverse

commutative property

compare (<, >, =)

counter models

integer

negative integer

number line models

opposites

order of operations agreement
positive integer

product

integer product mean quotient median sum

Be able to do the following:

- 1) Find the absolute value of a number and explain its meaning on the number line
- 2) Add, subtract, multiply and divide with integers
- 3) Evaluate algebraic expressions for a given variable
- 4) Model addition, subtraction and multiplication with counters and number lines
- 5) Write number sentences to model application problems
- 6) Use the order of operations agreement to evaluate numerical expressions with integers
- 7) Remember to find the change or difference between two things you subtract Higher # Lower #

How to Study for the Test

^{*}Study your notes

^{*}Look over your quizzes and redo ones you got wrong

^{*}Go over homework problems and redo ones you got wrong

^{*}Complete and correct the attached practice problems.

Math 7 Sample Test Questions
(Chapter 3 Integers)

Name					
Block		Da	ate		

SHOW CORRECT STEPS!

·/ Evaluate	<u>Evaluate</u> :				
-4(-6 + 2) - (5 - 8))				

- 2) Find the <u>mean</u> of these 3) Find the <u>median</u> of numbers.
 - -12 20 -8 -24
- these numbers.

9 -4 -7 2 -8

- 4) The melting point of mercury is -39° C. The freezing point of alcohol is -114°C. Find the difference in these two temperatures.
- 5) Evaluate if a = -3 and b = 5 and c = -2 $ab^2 + c$
- 6) The temperature dropped 2^Oevery hour for six hours. Write a number sentence to represent this situation.

7) Which of the following have a value of 10? Circle them. If the value is not 10, give its value.	8) A) Find the additive inverse of 10.	9) <u>Evaluate</u> : (-5) ² - (-2) ³
(-2)(5) additive inverse of 10	B) Find the sum of -8 and 8	
-x if x = -10 -4 + -6	C) Find the product of -7 and 2	
deposit of \$10 $ -10 $		
10) Evaluate: $ -4-2 + -3+10 $	11) Evaluate if a = -2 b = 5 and c = -3 a(b + c)	12) A shark rises 68 feet from its current depth of 103 feet below sea level. Write a number sentence that finds its present position.

13) Eval	uate:
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- 14) Kyle owes his brother \$40. He gives him the \$15 he earned shoveling snow. Write an addition expression to describe this situation. Then find the sum and explain its meaning.

D)
$$(-12) \div (-2)$$
 E) $-5 + -5$ F) $(8)(-5)$

- 15) The temperature in Madison, WI fell from 20 degrees F at noon to -20 degrees F at 8 pm. What was the change in temperature?
- 16) The average person loses 50 to 80 hairs per day to make way for new growth. Suppose you lose 70 hairs per day for 10 days without growing any. Write a multiplication expression to represent this situation. Then find the product and explain its meaning.

- 17) Find Claude's mistake and fix it.
 - -24 12 + (-2)
 - -24 10
 - -24 + (-10)
 - -34

- 18) A) |-6| + |8| B) |-6 + 8|

