

Name: ANSWER KEY

Block: _____

Date: _____

INTEGERS: Study GuideTest on: Wed. Oct. 11th

	3 - MS	2- PMS	1 - DNM
Competency 2 - Learning Target #1: I can add integers.			

DIRECTIONS: Add the integers. Show your work!

1.) $-36 + (-12) =$

$$\begin{array}{r} 36 \\ +12 \\ \hline 48 \end{array}$$

$$\textcircled{-48}$$

2.) $-24 + 12 =$

$$\begin{array}{r} 24 \\ -12 \\ \hline 12 \end{array}$$

$$\textcircled{-12}$$

3.) $-42 + (-12) =$

$$\begin{array}{r} 42 \\ +12 \\ \hline 54 \end{array}$$

$$\textcircled{-54}$$

4.) $42 + (-35) =$

$$\begin{array}{r} 42 \\ -35 \\ \hline 7 \end{array}$$

$$\textcircled{7}$$

5.) $32 + (-42) =$

$$\begin{array}{r} 42 \\ -32 \\ \hline 10 \end{array}$$

$$\textcircled{-10}$$

6.) $72 + (-23) =$

$$\begin{array}{r} 72 \\ -23 \\ \hline 49 \end{array}$$

$$\textcircled{49}$$

	3 - MS	2- PMS	1 - DNM
Competency 2 - Learning Target #2: I can subtract integers.			

DIRECTIONS: Subtract the integers. Show your work!

7.) $-13 - (-44) =$

$$\begin{array}{r} 44 \\ -13 \\ \hline 31 \end{array}$$

$$-13 + 44 =$$

$$\textcircled{31}$$

8.) $(-11) - 39 =$

$$-11 - 39 =$$

$$\textcircled{-50}$$

9.) $52 - (-12) =$

$$52 + 12 =$$

$$\textcircled{64}$$

10.) $29 - 43 =$

$$\begin{array}{r} 43 \\ -29 \\ \hline 14 \end{array}$$

$$29 + (-43)$$

$$\textcircled{-14}$$

11.) $(-843) - 342 =$

$$\begin{array}{r} 843 \\ +342 \\ \hline 1,185 \end{array}$$

$$-843 + (-342)$$

$$\textcircled{-1,185}$$

12.) $45 - 94 =$

$$45 + (-94)$$

$$\textcircled{-49}$$

$$\begin{array}{r} 94 \\ -45 \\ \hline 49 \end{array}$$

3 - MS

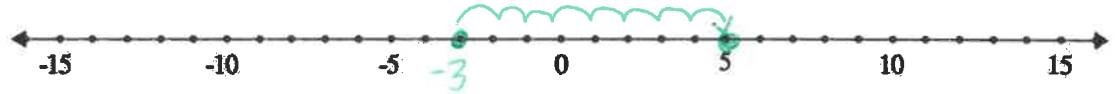
2- PMS

1 - DNM

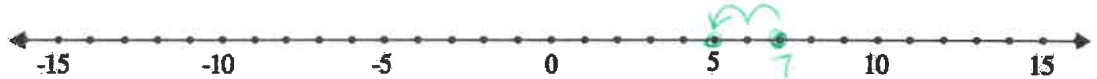
Competency 2 - Learning Target #3: I can represent addition of integers on a number line.

DIRECTIONS: Model the following addition problems on the number line.

13.) $-3 + (8) = \underline{5}$



14.) $7 + (-2) = \underline{5}$



3 - MS

2- PMS

1 - DNM

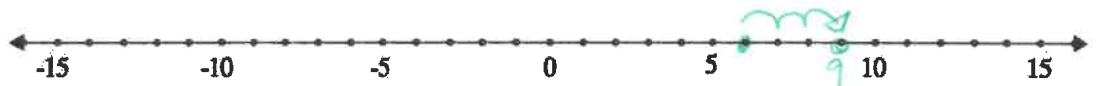
Competency 2 - Learning Target #4: I can represent subtraction of integers on a number line.

DIRECTIONS: Model the following subtraction problems on the number line.

15.) $-6 - (3) = \underline{-9}$
 $-6 + -3$



16.) $6 - (-3) = \underline{9}$
 $6 + 3$



3 - MS

2- PMS

1 - DNM

Competency 2 - Learning Target #5: I and represent the distance between two integers on a number line as an absolute value.

DIRECTIONS: Find the absolute value.

17.) $|-33| =$

33

18.) $|2 + -7| =$

$$2 + -7 = -5$$

$$|-5| = 5$$

19.) $|-24| + |13| =$

$24 + 13 = 37$

20.) What is the distance between -12 and 33 on the number line?



$$\begin{array}{r} 12 \\ + 33 \\ \hline 45 \end{array}$$

45

3 - MS

2- PMS

1 - DNM

Competency 2 - Learning Target #6: I can multiply integers.

DIRECTIONS: Multiply the integers. Show your work!

21.) $-4(12) =$

-48

22.) $-10(-6) =$

60

23.) $20(-4) =$

-80

24.) $2(12) =$

24

25.) $-8(3) =$

-24

26.) $-3(-4) =$

12

DIRECTIONS: Evaluate each expression if $a = -6$, $b = -4$, $c = 3$

27.) $-5c =$

$$-5(3) = -15$$

$$-15$$

28.) $3b =$

$$3(-4)$$

$$-12$$

29.) $5a =$

$$5(-6) =$$

$$-30$$

3 - MS

2- PMS

1 - DNM

Competency 2 - Learning Target #7: I can divide integers.

DIRECTIONS: Divide the integers. Show your work!

30.) $-18 \div 2 =$

-9

31.) $\frac{49}{-7} =$

-7

32.) $-30 \div (-5) =$

6

DIRECTIONS: Evaluate each expression if $x = 8$ and $y = -5$

33.) $55 \div y =$

$55 \div -5$
 -11

34.) $-40 \div x =$

$-40 \div 8$
 -5

35.) $-45 \div y =$

$-45 \div -5$
 9

3 - MS

2- PMS

1 - DNM

Competency 2 - Learning Target #8: I can compare and order integers

DIRECTIONS: Put the following integers in order from smallest to largest.

36.) 5, -34, 12, -4, 11, -3

-34, -4, -3, 5, 11, 12

37.) -51, 3, 2, -1, 5, -32

-51, -32, -1, 2, 3, 5

3 - MS

2- PMS

1 - DNM

Competency 2 - Learning Target #9: I can solve real-world and mathematical problems involving integers using one or more of the four basic operations.

DIRECTIONS: Solve the real-world problems using integer operations.

38.) Suppose the temperature is -6°F . What will the temperature be if it rises 51°F ?

$$\begin{array}{r} 451 \\ -6 \\ \hline 45 \end{array}$$

$$-6 + 51 = 45^{\circ}\text{F}$$

39.) If a submarine dives from a depth of 532 meters to a depth of 1,210 meters, what is the change in its depth?

$$\begin{array}{r} 1210 \\ -532 \\ \hline 678 \end{array}$$

678 meters

40.) A squirrel climbed 38 inches up a tree, slipped back 15 inches, and then climbed up 45 inches more. How far up the tree has the squirrel made it?

$$\begin{array}{l} 38 - 15 + 45 = \\ \quad \checkmark \\ 23 + 45 = \end{array}$$

68 inches

41.) A skydiver falls at approximately 12 meters per second. How many meters will he fall in 25 seconds?

$$\begin{array}{r} 25 \\ \times 12 \\ \hline 50 \\ 250 \\ \hline \end{array}$$

300 meters

