

Name: _____ Period: _____

Week 1 Homework Packet – 7th Grade Math

ASSIGNMENT DUE TUESDAY, AUGUST 30, 2016

Unit 1, Chapter 3 – Integers

Score
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Week Score
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Stamp

Four friends are playing the integer card game. They are all trying to get their score as close to zero as possible. Their hands are shown below. Calculate each player's score and write the score to the right of the table, then determine who won the round.

Jemal's Hand	4	-2	7	-5	1)
Morgan's Hand	1	-3	11	-6	2)
Rick's Hand	12	-10	-1	-4	3)
Amy's Hand	9	-11	-8	8	4)

5) Who won this round of the game?

Vanessa's Hand	3	-2	6	-10	6)
Kareem's Hand	9	-12	7	-5	7)
Dustin's Hand	-3	4	1	0	8)
Zariah's Hand	-7	11	-1	2	9)

10) Who won this round of the game?

Evaluate the following absolute values:

11) $|-44|$

12) $|-19|$

13) $|22|$

14) $|-3| - |-12|$

15) $|12 - 17|$

Evaluate the following expressions if $x = 4$, $y = -5$, and $z = -1$.

16) $11 - x$

17) $y - 2$

18) $z + 7$

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For the following subtraction problems, use Freeze-Add-Opposite to turn it into an addition problem, then solve. You must show the equivalent addition problem to get credit! An example has been done for you.

Ex) $-5 - (-7)$

$$\begin{array}{r} -5 + 7 \\ = 2 \end{array}$$

1) $-2 - 4$

2) $8 - (-3)$

3) $-2 - (-9)$

4) $11 - 14$

5) $-16 - (-24)$

6) $1 - 17$

7) Hiroshi is trying to evaluate $-15 - (-18)$ but doesn't understand why he got the wrong answer. What is the mistake that Hiroshi made? (Use complete sentences in your answer.)

$$\begin{array}{r} -15 - (-18) \\ -15 + (-18) \\ -33 \end{array}$$

8) The **commutative property** says that if you add two numbers, it doesn't matter what order they are in. For example, $5 + 2$ is the same thing as $2 + 5$. Does the commutative property work for subtraction? Explain your answer using complete sentences.

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ASSIGNMENT DUE FRIDAY, SEPTEMBER 2, 2016

Unit 1, Chapter 3 – Integers

Evaluate each expression below.

1) $3 \times (-2)$

2) $(-4) \cdot 5$

3) $(-5) \cdot (-3)$

4) $4 \times (-7)$

5) $(-4)(-10)$

6) $11(-2)$

7) $(-8) \cdot 5$

8) $(-9) \times (-8)$

9) $5 \cdot (-9)$

10) Kendra looks at the weather forecast for the next four days in January and sees that the temperatures are going to be -10°F , 8°F , 13°F , and -5°F . She adds the numbers together and says that the total temperature for the next four days will be 6°F . Does Kendra's answer make sense? Explain how you know, using complete sentences.

11) Because of global warming, a glacier is losing 14 square miles of area every year. How many square miles of glacier will be lost in six years?

12) A marathon runner burns 120 calories for every mile he runs. How many calories will he burn if he runs eight miles?

13) When will the product of two integers be a negative number?