

Name: _____ Period: _____

Week 7 Homework Packet – 7th Grade Math Honors

SCORE
/4

WEEK SCORE
/12

Stamp

ASSIGNMENT DUE TUESDAY, SEPTEMBER 20, 2016

Unit 2, Chapter 2 - 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. What integer would represent the change in the glacier's area in square miles after six years?

12) A marathon runner burns 120 calories for every mile he runs. Write an expression to represent the change in the runner's caloric energy after eight miles.

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

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ASSIGNMENT DUE WED/THU, SEPTEMBER 21/22, 2016

Unit 2, Chapter 2 - Integers

Evaluate each expression below. For subtraction problems, use Freeze-Add-Opposite to change the problem into an addition problem. **SHOW ALL WORK** to get a stamp!

1) $15 \div (-3)$

Answer

2) $-24 \div (-6)$

Answer

3) $-11 + (-2)$

Answer

4) $\frac{-10}{-2}$

Answer

5) $-15 - (-5)$

Answer

6) $\frac{-18}{3}$

Answer

7) $(-4)^2$

Answer

For each problem below, write an equivalent addition problem by using Freeze-Add-Opposite. Some examples have been done for you. (Note: You are not writing the answer! You are only writing an equivalent expression.)

Ex.) $11 - (-4)$

$11 + 4$

Ex.) $-5 - 7$

$-5 + (-7)$

8) $12 - (-11)$

9) $-6 - 18$

10) $-14 - (-5)$

11) $19 - 31$

12) $7 - (-13)$

13) $-3 - (-16)$

14) $5 - (-14)$

15) $-8 - 23$

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ASSIGNMENT DUE FRIDAY, SEPTEMBER 23, 2016

Unit 2, Chapter 2 - Integers

Evaluate each of the following. SHOW ALL WORK!

1) $7 + (-9)$

2) $(-5)^2$

3) $-3 - (-9)$

4) $-11 + (-13)$

5) $|-8| + |6|$

6) $|9| - |-11|$

7) $5 \cdot (-3)$

8) $(-3)^3$

9) $\frac{34}{-2}$

For problems 10–12, evaluate the expressions if $x = 5$, $y = -3$, and $z = 2$. SHOW ALL WORK!

10) $2x$

11) $y - z$

12) $xy - z$

13) Using complete sentences, explain why the square of a number can never be negative but the cube of a number can.