**Station 1**

1.) Review the following expressions. Determine which symbol (<, >, or =) could be placed in the blank to make a true mathematical statement.

a.) -6 ∙ -6 \_\_\_\_\_ |-6 ∙ -6| b.) $\frac{-10}{-2} \\_\\_\\_\\_\\_\\_\\_\\_ \frac{10}{2}$

c.) 2 ∙ -5 \_\_\_\_\_ -2 ∙ 5 d.) |-4 ÷ (-1)| \_\_\_\_\_ |4 ÷ 1|

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**Station 2**

1.) Use the number line to answer the questions.

a) A ∙ -4 = \_\_\_\_\_ c) C ∙ -3 = \_\_\_\_\_

b) B ∙ 1 = \_\_\_\_\_ d) D ∙ -6 = \_\_\_\_\_\_



2.) When multiplying two negative integers, is your answer always, sometimes, or never negative? Explain.

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**Station 3**

1) Which situations are examples of equivalent expressions? (select ALL that apply)

A. 3 sets of -2 and 2 sets of -3.
B. The opposite of 4 sets of 5 and -4 ∙ -5.

C. The opposite of 6 sets of -8 and -6 ∙ -8.

D. 4 sets of -4 and the opposite of 4 sets of 4.

E. The opposite of 5 sets of -2 and -5 ∙ -2.

2) Which equations are true?
I. $\frac{-6(6)}{-3(4)}   $= $\frac{4∙9}{2∙6}$

 a.) II only b.) III only

 c.) I and II d.) I and III

II. $\frac{-8(-7)}{-2(4)}   $= $\frac{50 -(-6)}{-4+(-4)}$

III. (-4)⁴ = -4⁴

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**Station 4**

In a given equation, a, b, and c are nonzero rational numbers.

**a · b = c**

Given this equation, insert one number into each box to complete four true equations.

(Use a, b, c, -a, -b, or –c to fill in the blanks).

**Station 4**

In a given equation, a, b, and c are nonzero rational numbers.

**a · b = c**

Given this equation, insert one number into each box to complete four true equations.

(Use a, b, c, -a, -b, or –c to fill in the blanks).

**Station 5**

Identify which of the following numbers makes each statement true. There might be more than one number for each statement.

8 -3 0 2 -1 9 -4 -8

A. Statement #1: -4 ∙ \_\_\_\_\_\_ = a positive number

B. Statement #2: \_\_\_\_\_\_\_ ÷ 2 = a negative number

C. Statement #3: \_\_\_\_\_\_\_ ∙ (4) = zero

D. Statement #4: -3 ∙ \_\_\_\_\_\_\_ = a negative number

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**Station 6**

The temperature at midnight was 3 degrees below zero. For the next 5 hours, the temperature dropped at a steady rate of 2 degrees per hour. After that, the temperature rose steadily 4 degrees per hour.

At what time was the temperature 7 degrees above zero?

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**Station 7**

Are the expressions equivalent? Write yes or no.

1. $ \frac{18}{2}  $and $\frac{18}{-2}$
2. -3 ∙ 25 and 25 ∙ (-3)
3. $ \frac{-25}{5}  $and - $\frac{25}{5}$
4. -22(9)(4) and (-22)(-9)(-4)
5. (-8)⁴ and (-8)(4)
6. (-5)⁴ and -5⁴
7. $\frac{-33}{-11}$ and -$ \frac{33}{11}$
8. -29(-3) and -3(29)

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**Station 8**

The population of a small town is changing at a rate of -255 people per year. How long will it take for the change in population to be -2,040 people?

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**Station 9**

Fill in the blank for each. Use the choices give. (Can be more than one)

1. 5(-2)(3) = \_\_\_∙ \_\_\_ (5)

 A. 2 -3

Choices: B. -2 -3

 C. 2 3

 D. -2 3

2) 11(-2) ∙ 4 = \_\_\_∙ \_\_\_ ∙ 11

 A. 2 4

Choices: B. 2 -4

 C. -2 4

 D. -2 -4

3) 8(-4 + 2) = (\_\_\_ – \_\_\_)8

 A. 2 -4

Choices: B. -2 -4

 C. 2 4

 D. -2 4

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 C. -2 4

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3) 8(-4 + 2) = (\_\_\_ – \_\_\_)8

 A. 2 -4

Choices: B. -2 -4

 C. 2 4

 D. -2 4

**Station 10**

1. A football team lost 9 yards on each of three consecutive plays. Write an expression for this situation. Then find the team’s total change in position for the three plays.
2. The value of a piece of office equipment is changing at a rate of -$175 per year. How long will it take for the change in value to be -$1,050? Write an equation. Then solve to find the answer.

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**Multiplying and Dividing Integers Stations** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 1**

**Station 5**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 6**

1. Equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Answer: \_\_\_\_\_\_\_\_\_

**Station 7**

1. \_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_

**Station 8**

1. Equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Answer: \_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 2**

1.

1. \_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 3**

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 4**



**Station 9**

1. \_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_

**Station 10**

1. Expression:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Answer: \_\_\_\_\_\_\_\_\_

1. Equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Answer: \_\_\_\_\_\_\_\_\_