Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

5.1 – 5.2 Review and Study Guide

**Topics to be covered:**

* Multiplication Rules
* Multiplication of Integers
* Multiplication of Rational Numbers (Fractions and Decimals)
* Application of all of the above (Word Problems)

**Multiplication Rules:**

1. Positive x Positive = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Positive x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= Negative
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x Negative = Positive
4. Negative x Positive = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Even number of negative signs result in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ product (answer to a multiplication problem)
6. Odd number of negative signs result in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ product

**Multiplication of Integers:**

1. (-2)(-4)
2. (4)(3)(-1)
3. (-6)(7)
4. (-1)(1)(-1)(-1)(-1)(2)(-3)(3)(-2)(2)
5. (8)(12)
6. (12)(-12)(0)
7. (-1)(-1)(-1)(-1)(-1)(-2)(-3)(-3)(-2)(2)
8. (11)(-7)
9. (-9)(9)
10. (-8)(4)(-2)
11. (-6)(5)(-1)(-1)(2)(-2)
12. (-11)(-12)(0)

**Multiplication of Rational Numbers:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $ -3 ∙ \frac{3}{7}$
 | 1. $ - \frac{4}{5} ∙ -\frac{5}{10}$
 | 1. $ \frac{8}{3} ∙ -\frac{6}{12}$
 | 1. $ \frac{11}{4} ∙ 2\frac{1}{4}$
 |
| 1. $\left(1.45\right)\left(-42.6\right)$
 | 1. ($-$.0914)(2.23)
 | 1. (-3.25)(-1)(-5.8)
 | 1. $ -3\frac{ 1}{4} ∙ 1\frac{5}{8}$
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