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

5.3 – 5.4 Review and Study Guide

**Topics to be covered:**

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

**Division Rules:**

1. Positive ÷ Positive = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Positive ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= Negative
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ Negative = Positive
4. Negative ÷ Positive = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. The answer to a division problem is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Division of Integers:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $ -18 ÷ 6$
 | 1. $ 42 ÷ 7$
 | 1. $ -72 ÷ -9$
 | 1. $ 24 ÷ -3$
 |
| 1. $ -45 ÷ 9$
 | 1. $ -12 ÷ -2$
 | 1. $ 35 ÷ -5$
 | 1. $ -64 ÷ -8$
 |

**Division of Fractions: \*\*REMEMBER: No need to make a common denominator!**

**Steps: KEEP 🡪 CHANGE 🡪 FLIP**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $ \frac{3}{4} ÷ \frac{7}{8}$
 | 1. $ -\frac{6}{11} ÷ \frac{4}{3}$
 | 1. $ - \frac{1}{5} ÷- 5$
 | 1. $ \frac{2}{12} ÷ -\frac{3}{5}$
 |
| 1. $ - 5÷- \frac{1}{5}$
 | 1. $ - \frac{11}{9} ÷ \frac{3}{4}$
 | 1. $ \frac{4}{9} ÷- \frac{9}{4}$
 | 1. $ - \frac{2}{3} ÷ 8$
 |

**Division of Decimals: \*\*REMEMBER: Move the decimal of the outside number to make it a whole number…MUST DO TO THE INSIDE DECIMAL THE SAME # OF SPACES!**

|  |  |  |
| --- | --- | --- |
| 1. $ \left(0.345\right)÷(2.3)$
 | 1. $ \left(-89.32\right)÷(-.0042)$
 | 1. $ \left(-0.0903\right)÷(-4.3)$
 |

**Word Problems:**

1. A certain plant grows $1\frac{2}{5}$ inches every week. How long will it take the plant to grow $5\frac{2}{5}$ inches?
2. Give an example of an expression of dividing by 0. What does this division problem mean?
3. Give an example of an expression of dividing by 1. What does this division problem mean?
4. Your friend claims that $\frac{3}{8}÷\frac{-12}{9} is \frac{-1}{2}$. Is she correct? Prove that she is or prove that she is not.