Multiplying and Dividing Signed Fractions

* Change all mixed numbers to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* If the problem is division, change it to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and take the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the second fraction
* Simplify/reduce \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ or on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. You can NOT reduce numbers that are next to each other.
* Multiply across the top, across the bottom – don’t forget integer rules!

Examples:

|  |
| --- |
| A. $-\frac{4}{5}∙3\frac{1}{2}$ |
| B. $5\frac{1}{5}÷\left(-2\frac{1}{10}\right)$ |
| C. $-4\frac{2}{3}∙\left(-\frac{3}{7}\right)$ |
| D. $\frac{2}{3}÷\left(-\frac{4}{9}\right)$ |
| E. $-4\frac{1}{5}÷\frac{7}{8}$ |

Multiplying Signed Decimals

* Rules have not changed! Multiply numbers as usual, count up \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ places.
* Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rules to determine sign of product.

1. $3.2∙(-4.3)$ 2. $\left(-4.32\right)(-2.7)$

3. $0.12 ∙(-3.1)$ 4. $\left(-0.2\right)(-1.4)$

Dividing Signed Decimals

* Rules have not changed! Move decimal point in divisor to the \_\_\_\_\_\_\_\_\_\_\_\_ to make it a \_\_\_\_\_\_\_\_\_\_\_\_ number, and move the decimal point in the dividend the same amount, then place on top.
* Divide as normal, use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rules to determine sign of quotient.

1. $25.2 ÷(-0.2)$ 2. $-7.29 ÷(-9)$

3. $-1.15÷0.5$ 4. $4.20÷(-0.07)$