

in class practice 10/28

Multiplying and Dividing Integers

Here are the rules---

If the signs are different the answer is negative.

If the signs are the same the answer is positive.

If it helps you, you can use this to remember the rules---

Something good happens to a good person, it's good

Something bad happens to a good person, it's bad

Something bad happens to a bad person, it's good

Something good happens to a bad person, it's bad

$$\text{pos} \times \text{pos} = \text{pos}$$

$$\text{pos} \div \text{pos} = \text{pos}$$

$$\text{neg} \times \text{neg} = \text{pos}$$

$$\text{neg} \div \text{neg} = \text{pos}$$

$$\text{pos} \times \text{neg} = \text{neg}$$

$$\text{pos} \div \text{neg} = \text{neg}$$

$$\text{neg} \times \text{pos} = \text{neg}$$

$$\text{neg} \div \text{pos} = \text{neg}$$

Let's Practice Multiplying

1. -5×3

$$-15$$

2. $(-4)(-7)$

$$28$$

3. $9 \cdot -2$

$$-18$$

4. -3×-8

$$24$$

5. 9×-7

$$-63$$

6. $(-6)(-8)$

$$48$$

7. $5 \cdot 7$

$$35$$

8. -8×0

$$0$$

Let's Practice Dividing

1. $48 \div 6$

$$8$$

2. $(-48) \div 6$

$$-8$$

3. $48 \div (-6)$

$$-8$$

4. $(-48) \div (-6)$

$$8$$

5. $\frac{15}{3} = 5$

6. $\frac{-15}{3} = -5$

7. $\frac{15}{-3} = -5$

8. $\frac{-15}{-3} = 5$

Try some using Order of Operations

1) $\frac{-8-12}{-2}$

$$10$$

2) $\frac{4(5-8)}{2}$

$$-6$$

3) $\frac{5-(-9)+(-2)}{-4}$

$$-3$$