

7th Grade Lesson 73

- I can multiply signed numbers.
- I can divide signed numbers.

Multiplication is repeated addition...

$$3(4) = 4 + 4 + 4 = 12$$

$$3(-4) = (-4) + (-4) + (-4) = -12$$

$$3(4) = 12$$

$$4(3) = 12$$

$$\frac{12}{3} = 4$$

$$\frac{12}{4} = 3$$

$$3(-4) = -12$$

$$-4(3) = -12$$

$$\frac{-12}{3} = -4$$

$$\frac{-12}{-4} = 3$$

$$3(-4) = -12$$

$$(-3)(-4) = 12$$

opposite of 3 opposite of -12

RULES FOR MULTIPLYING & DIVIDING SIGNED NUMBERS

1. If the two numbers in the multiplication or division problem have the same sign, the answer is a positive number.
2. If the two numbers in the multiplication or division problem have different signs, the answer is a negative number.

$$(+6)(+2) = +12$$

$$\frac{+6}{+2} = 3$$

$$(-6)(-2) = +12$$

$$\frac{-6}{-2} = 3$$

$$(-6)(+2) = -12$$

$$\frac{-6}{+2} = -3$$

$$(+6)(-2) = -12$$

$$\frac{+6}{-2} = -3$$

$$\frac{-8}{+4} = -2$$

$$\frac{-12}{-3} = 4$$

$$(6)(-3) = -18$$

$$(-6)(-4) = 24$$

Assignment

Problem Set 73

***A/B Optional #1-2, 4, 6-9, 11-14, 22-24, 29-30**