

12.4

Multiplying and Dividing Rational Numbers

Multiplying Integers

**Multiply numbers like regular multiplication...
however...**

POSITIVE X POSITIVE = POSITIVE
POSITIVE X NEGATIVE = NEGATIVE
NEGATIVE X POSITIVE = NEGATIVE
NEGATIVE x NEGATIVE = POSITIVE

$$a) 8 \times -6 =$$

$$c) -9 \times -7 =$$

$$b) -11 \times 2 =$$

$$d) -12 \times 5 =$$

Multiplying Rational Numbers

$$1) -\frac{2}{7} \bullet \frac{1}{3} =$$

Multiplying Rational Numbers

$$2) \quad -\frac{1}{2} \bullet \frac{4}{9} =$$

Multiplying Rational Numbers

$$3) \quad -2\frac{1}{3} \times 3\frac{2}{3} =$$

Multiplying Rational Numbers

$$4) -2\frac{1}{2}\left(-3\frac{3}{5}\right)=$$

Multiplying Rational Numbers

$$5) \frac{3}{4} \bullet \left(-2\frac{1}{6}\right) \left(1\frac{2}{3}\right) =$$

Multiplying Rational Numbers

6) $(-7)(0.08)(-0.4)$

RULES FOR DIVIDING INTEGERS

Divide numbers like regular division... however...

POSITIVE \div POSITIVE = POSITIVE

POSITIVE \div NEGATIVE = NEGATIVE

NEGATIVE \div POSITIVE = NEGATIVE

NEGATIVE \div NEGATIVE = POSITIVE

a) $8 \div -4$

c) $-21 \div -7$

b) $-20 \div 4$

d) $-36 \div 3$

Divide and then simplify

$$1) \quad -5\frac{1}{5} \div 2\frac{1}{3}$$

Divide and then simplify

$$2) \quad -3\frac{3}{5} \div (-6)$$

Practice

$$3) \quad -7.85 \div 0.005$$

Practice

$$4) (-0.5)(-4.2) \div 0.03$$