

QUIZ

**When finished raise your hand to have it
picked up then **read or work on other
homework****

Multiplying Rational Numbers

Section 3.4

Positive x positive = (+)
(+)(+)

Negative x negative = (+)
(-)(-)

Negative x positive = (-)
(-)(+)

What will the sign be???

A. $-4 \times -1 \times 9 \times -3 = (-)$

B. $5 \times 4 \times 3 \times -3 \times -4 \times 3 = (+)$

C. $(+)(-)(-)(+)(-) = (-)$

* Odd number of negatives when multiplying your answer is negative

Multiplying Fractions

Multiply the NUMERATOR x NUMERATOR
DENOMINATOR x DENOMINATOR



Find the **product** [the answer when multiplying] for the following.

Express your answer in lowest terms and as a mixed number when necessary.

$$a) \frac{6}{7} \times \frac{5}{6} = \frac{30}{42} = \frac{15}{21} = \frac{5}{7}$$

Brackets



When brackets are placed beside each other it is a multiplication therefore the "x" is not needed.

$$-3 \times -4$$

$$(-3)(-4)$$

Evaluate and express in lowest terms:

b) $\left(-\frac{2}{5}\right) \times \frac{7}{-3}$

$$-\frac{2}{5} \times \frac{-7}{3}$$

$$\frac{14}{15}$$

c) $\frac{5}{6} \times -3\frac{1}{2}$

$$\frac{5}{6} \times \frac{-7}{2}$$

$$\frac{-35}{12}$$

$$-2\frac{11}{12}$$

$$d) \left(-\frac{1}{6}\right)\left(1\frac{3}{4}\right)$$

$$-\frac{1}{6} \times \frac{7}{4}$$

$$-\frac{7}{24}$$

$$e) \left(2\frac{4}{5}\right) - \left(-\frac{3}{6}\right)$$

$$\begin{array}{l} \times 6 \\ \times 6 \end{array} \frac{14}{5} - -\frac{3 \times 5}{6 \times 5}$$

$$\frac{84}{30} - -\frac{15}{30}$$

$$\frac{99}{30} = 3\frac{9}{30}$$

$3\frac{3}{10}$

$$\frac{1}{3} \times \frac{2}{-7} \times -2\frac{3}{4}$$

$$\frac{1}{3} \times \frac{-2}{7} \times \frac{-11}{4}$$

$$\frac{22}{84}$$

$$\frac{11}{42}$$