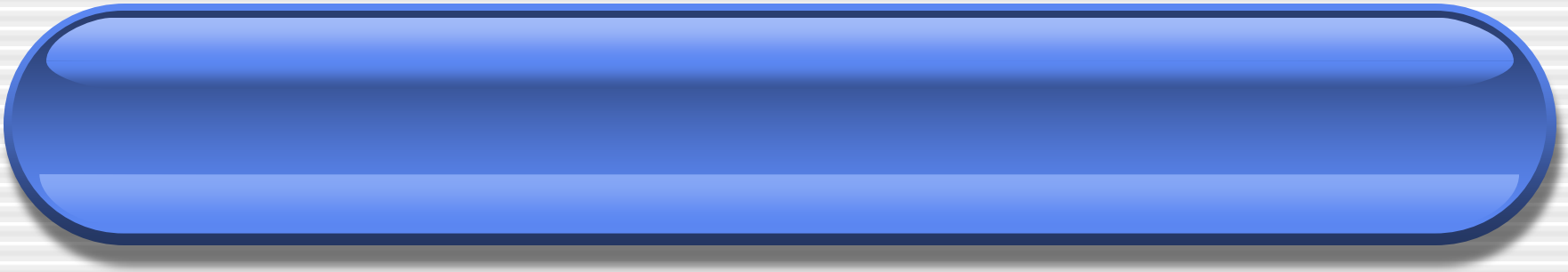
Multiplying and Dividing Fractions



6th Grade Mathematics

Mr. Wong

Ex. 1: Find each product.

$$\frac{4}{7} \cdot \frac{3}{5} = \text{Multiply straight across.}$$

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

Ex. 2: Find each product.

$$1\frac{2}{5} \cdot 2\frac{2}{7} =$$

Make fractions improper first.

$$\frac{\cancel{7}}{5} \cdot \frac{16}{\cancel{7}} =$$

Multiply whole number by the denominator and add the numerator to make fraction improper.

$$\frac{16}{5} =$$

Multiply 1 and 5, then add 2.
Multiply 2 and 7, then add 2.
Cancel out, if possible.
Multiply straight across.

$$3\frac{1}{5}$$

Make fraction proper, divide.

Ex. 3: Find each quotient.

$$\frac{3}{4} \div \frac{8}{9} =$$

Change the division sign to a multiplication sign and flip the second fraction.

$$\frac{3}{4} \cdot \frac{9}{8} =$$

Multiply straight across.

$$\frac{27}{32}$$

Ex. 4: Find each quotient.

$1\frac{3}{5} \div -2\frac{1}{2} =$ Make fractions improper first.

Multiply whole number by the denominator and add the numerator to make fraction improper.

$\frac{8}{5} \div \frac{-5}{2} =$

Multiply 1 and 5, then add 3.

$\frac{8}{5} \cdot \frac{2}{-5} =$ Multiply 2 and 2, then add 1.

Change sign, and flip second fraction.

$\frac{16}{-25}$

Multiply straight across.