

Name: Key
Date: _____

Mr. Johnson
Math 8

Lesson 3.3 – Multiplying Fractions

Notes:

Multiplying fractions is actually quite easy! The first thing we need to do when we are multiplying fraction is multiply the two numerators. Once that is complete we do the same with the two denominators.

For example:

$$\frac{5}{8} \times \frac{2}{3} = \frac{5 \times 2}{8 \times 3} = \frac{10}{24} = \frac{5}{12}$$

Once you have multiplied the numerators and the denominators we need to write our solution in lowest terms.

This method can also be used when multiplying:

- proper frac^s & improper frac^s

$$\frac{3}{4} \times \frac{5}{2} = \frac{3 \times 5}{4 \times 2} = \frac{15}{8}$$

And

- proper fraction & integers

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

Remember that any integer can be written as a fraction where 1 is the denominator!

Try these:

$$1) \frac{1}{8} \times \frac{2}{3} = \frac{2}{24} = \frac{1}{12}$$

$$2) \frac{4}{2} \times \frac{8}{5} = \frac{32}{10} = \frac{16}{5}$$

as a mixed # → $= 3 \frac{1}{5}$

Assignment:

Pg. 118-120 #'s
1, 3-8, 13-17

