

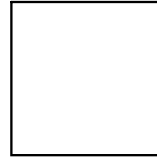
Math 7 - Unit 1b
Day 5 - Multiplying Rational Numbers
(Fractions)

Lesson Objectives:

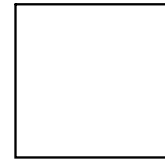
- I can multiply positive & negative fractions.

Model each fraction.

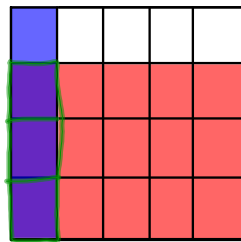
$$\frac{3}{4}$$



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



What happens if we slide one fraction over the other?



3/4 Group of 1/5

$$\frac{3}{4} \times \frac{1}{5} = \frac{3}{20}$$

To multiply fractions, multiply the numerators and multiply the denominators.

$$\frac{2}{3} \times \frac{1}{4} = \frac{2^{\cancel{2}}}{12^{\cancel{2}}} = \frac{1}{6} \quad \frac{7}{10} \times \frac{5}{7} = \frac{35^{\cancel{5}}}{70^{\cancel{5}}} = \frac{1}{2}$$

$$\frac{3}{8} \times 4 = \frac{12^{\cancel{4}}}{8^{\cancel{4}}} = \frac{3}{2} \quad 3\frac{1}{3} \times 2\frac{1}{2} =$$

$$\frac{3}{\cancel{2}8} \times \frac{4^{\cancel{1}}}{1} = \frac{3}{2} \quad \frac{10}{3} \times \frac{5}{2} = \frac{50^{\cancel{2}}}{6^{\cancel{2}}} = \frac{25}{3}$$

Remember that fractions can be negative. The same rules apply that we've already learned.

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

$$-\frac{7}{9} \times -\frac{3}{5} = \frac{21}{45}$$

$$\frac{7}{15} \times \frac{3}{8} \times \frac{-4}{9} = -\frac{1}{6}$$

Homework

Multiplying Fractions WKS

* Individual Think Time *



What to do if you get stuck...

- Reread the problem. Did you write it down correctly?
- Reread your notes. Is there a problem similar that we did together in class?
- Find a problem similar in your book. Try this one to see if it helps.
- Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

