

Chapter 5: Multiplying and Dividing Fractions

CH 5.1 - Multiplying fractions by whole numbers

Example

Key Points

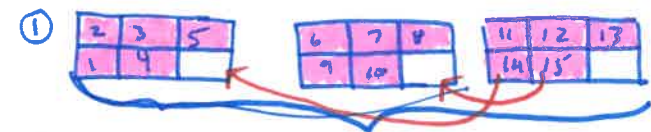
Three groups of $\frac{5}{6}$

$$3 \times \frac{5}{6}$$

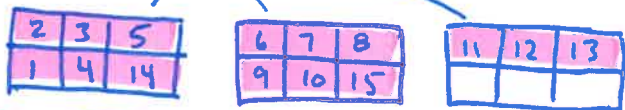
- ① • Model your fraction

- The whole number is how many groups of the fraction you have

- ② • Determine how many whole "groups" you have and how many parts left over



② $\frac{15}{6} = 2 \frac{3}{6}$ or $2 \frac{1}{2}$



with out models.

$$3 \times \frac{5}{6}$$

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

• any whole # can be made into a fraction with a denominator of 1.

$$\frac{3}{1} \times \frac{5}{6} = \frac{15}{6} = 2 \frac{3}{6} \text{ or } 2 \frac{1}{2}$$

• multiply...
numerator x numerator
denominator x denominator.

Try it out:

$$1 \frac{1}{2}$$

$$2 \times \frac{3}{4}$$

$$\frac{2}{3}$$

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

$$4$$

$$6 \times \frac{2}{3}$$

Name:

Math 8

Date:

Word Problems

1. A spider has 8 legs. An ant has $\frac{3}{4}$ as many legs as a spider. How many legs does an ant have?
2. A chess board has 64 squares on it. If $\frac{1}{4}$ of the board is covered in black pieces, how much of the total board is covered by them?
3. A recipe calls for $\frac{2}{3}$ of a cup of brown sugar. If you want to triple your recipe, how many cups of brown sugar would you need?

Practice Assignment: page 136 # 1-3, choose three apply questions (challenge #11 and #12)