

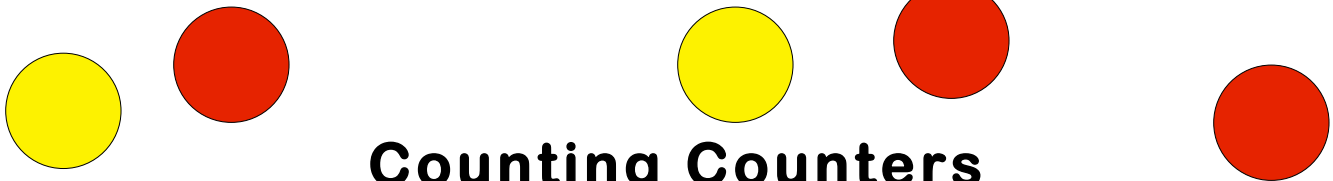
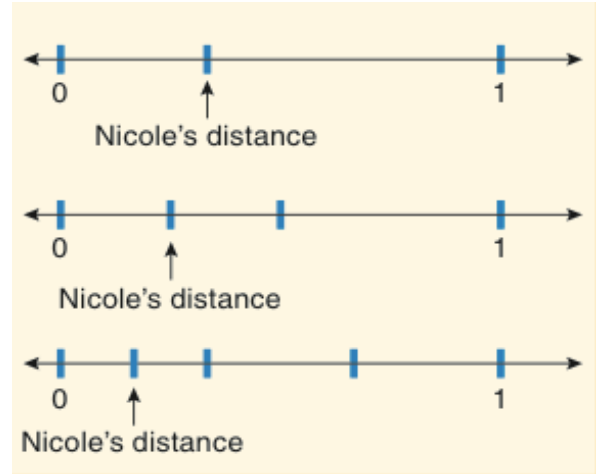
Understanding Fraction Multiplication: It Counts!

Part 1: Multiplication of Fractions: Getting Ready

What fraction of each strip is shaded?



How far has Nicole traveled?

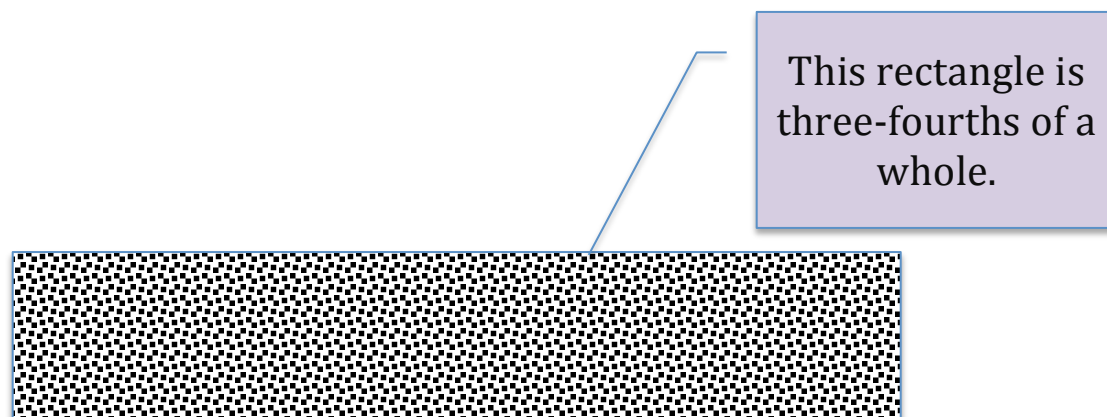


Counting Counters

Your whole set of counters is 12 counters.

1. How many counters are in one-fourth of a set?
2. How many counters make three-fourths of the set?
3. How many counters are in six-fourths of a set?
4. How many counters are in one-third of a set?
5. How many counters are in five-thirds of a set?

A Whole Lot of Fun!



Draw a rectangle that is:

1. $\frac{1}{2}$ of the whole

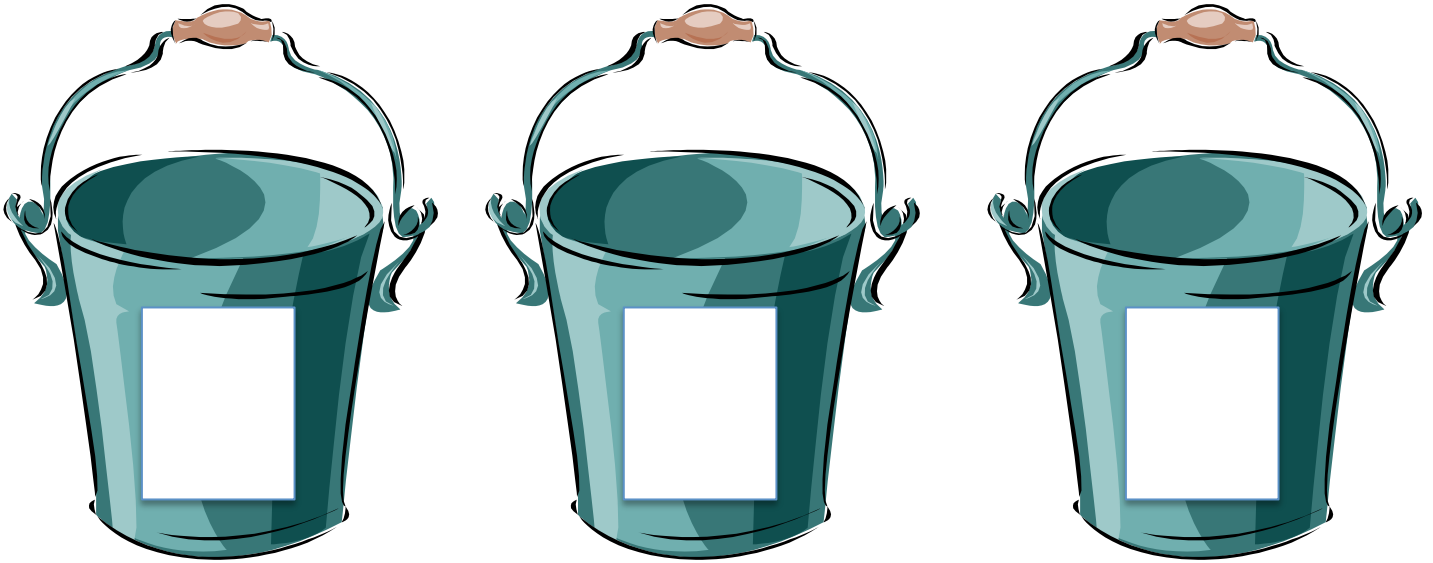
2. $\frac{2}{3}$ of the whole

3. $\frac{3}{2}$ of the whole

4. $\frac{5}{4}$ of the whole

Adapted from Van de Walle, Karp, & Bay-Williams *Elementary and Middle School Mathematics: Teaching Developmentally* (9E). New York, NY: Pearson Education.

Where does your fraction go?



Part 2: Multiplication of Fractions

Feeding the Dogs Problem

Marvin ate 3 pounds of meat every day. How much meat did Marvin eat in one week?



Marvin

Murphy ate $\frac{1}{3}$ pounds of meat every day. How much meat did Murphy eat in one week?

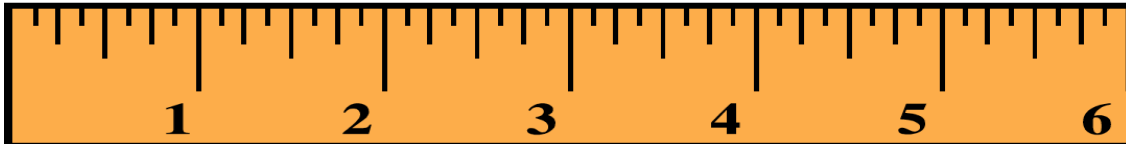


Murphy

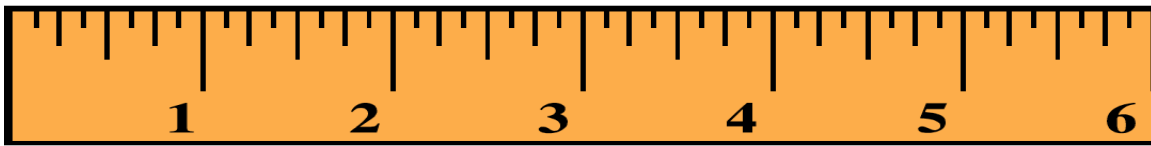
JUMPS ON THE RULER - Multiplication

Use the ruler to illustrate the products. (Note: rulers are not to scale)

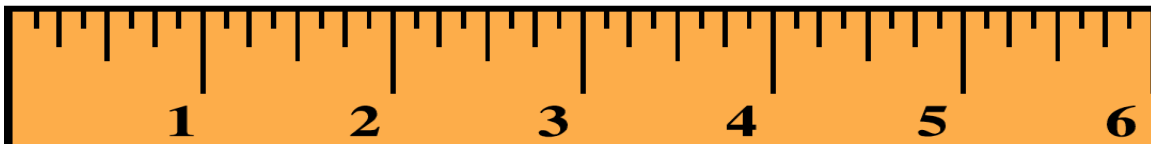
1. $3 \times \frac{1}{2} =$



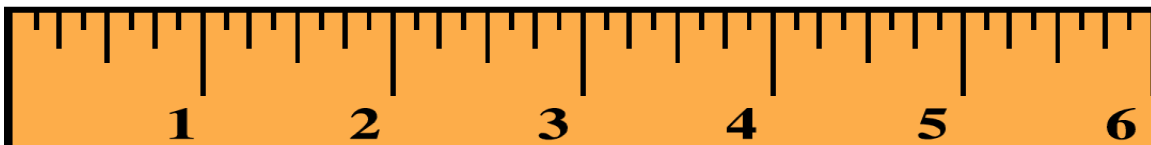
2. $6 \times \frac{1}{4} =$



3. $8 \times \frac{1}{4} =$



4. $10 \times \frac{1}{8} =$



Counting Cars



Mika has 20 Matchbox vehicles collection. Based on the descriptions below, how many of each type of car does Mika have?

For each situation, write an equation and solve.

1. **One-fourth are yellow.** Equation: _____

Illustration and Solution:

2. **One-fifth are trucks.** Equation: _____

Illustration and Solution:

3. **Two-fifths are silver.** Equation: _____

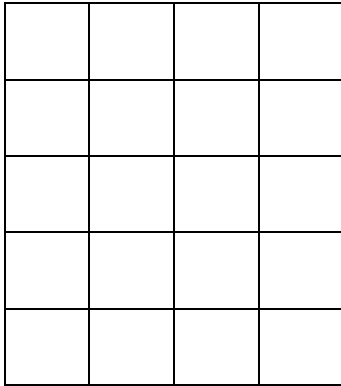
Illustration and Solution:

4. **Three-fourths are cars.** Equation: _____

Illustration and Solution:

Corny Farms

Frieda loves corn, so she plants one-fourth of her farm with sweet corn. Frieda's favorite type is speckled, so she plans for three-fifths of her corn to be speckled.



What fraction of the farm is speckled sweet corn? _____

What equation fits this story? _____

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

Write your own story:

Partition and shade the rectangle:

