

# Answers **Modeling Subtraction Fraction Word Problems**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

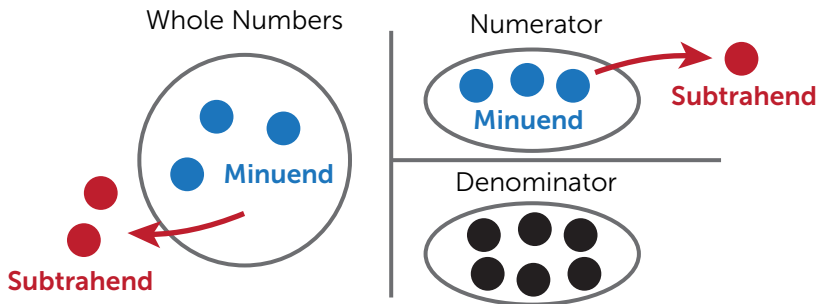
## Example:

Shelley had five and four-sixths pounds of jelly beans from the party, but had to give two and one sixths pounds to her sister Amy. How many jelly beans would Shelley have left?

First, identify the expression to solve:  $5\frac{4}{6} - 2\frac{1}{6}$

Then, model and solve expressions from the following word problems using the following steps:

1. Illustrate the **minuend** (the **amount being subtracted from**).
2. Subtract the **subtrahend** (the **amount being subtracted**), by showing what's removed.
3. State the model and difference, then share with a partner.



This is a model of

$$5\frac{4}{6} - 2\frac{1}{6}$$

The difference is

$$3\frac{3}{6}$$

## Exercises

**Directions:** Read each word problem and solve it by illustrating, subtracting, and noting each expression as shown in the example above.

1. Lily hadn't seen her friend, Kathy, in over five years and exclaimed, "You must have grown five and five-sixths inches since we last saw one another!" Kathy retorted, "No honey, I've grown three and one-sixth inches." What is the difference between Lily's guess and Kathy's actual growth?

The expression to solve is:

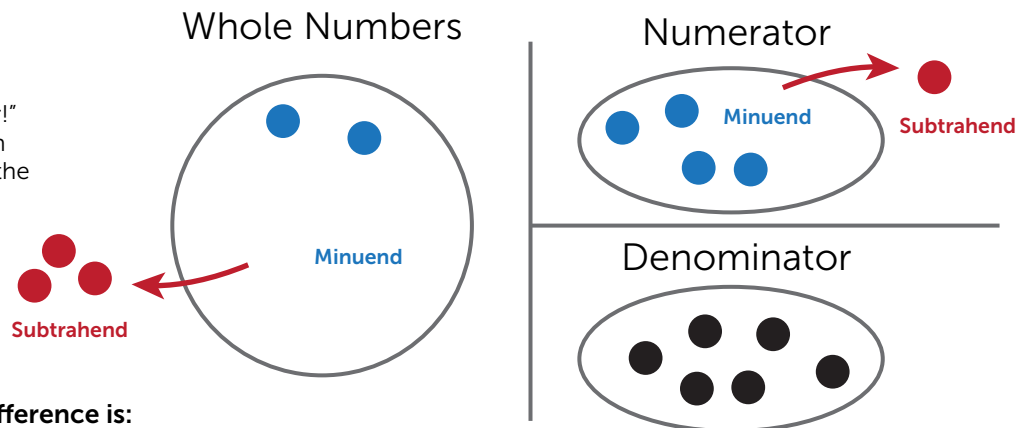
$$5\frac{5}{6} - 3\frac{1}{6}$$

This is a model of:

$$5\frac{5}{6} - 3\frac{1}{6}$$

The difference is:

$$2\frac{4}{6}$$



# Answers **Modeling Subtraction Fraction Word Problems**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

2. Vivian was training and had finished eight and four-sevenths of her workout. Her sister, in training too, had completed six and one-sevenths of her workout. How much more of the workout had Vivian finished than her sister?

The expression to solve is:

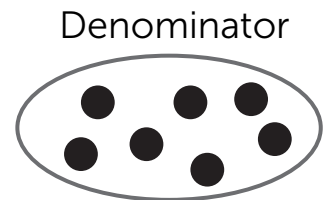
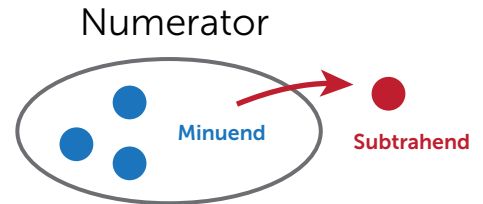
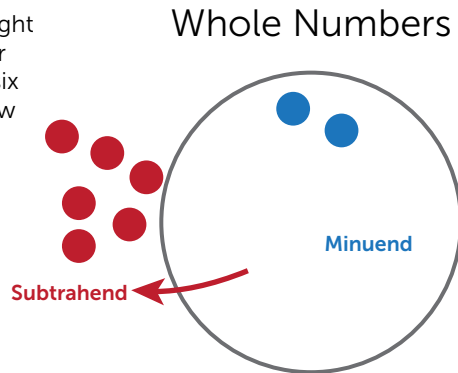
$$\underline{8\frac{4}{7} - 6\frac{1}{7}}$$

This is a model of:

$$\underline{8\frac{4}{7} - 6\frac{1}{7}}$$

The difference is:

$$\underline{2\frac{3}{7}}$$



3. Guy had run eight and four-tenths of a mile in an hour. Graham had run four and three-tenths of a mile in an hour. How many more miles did Guy run than Graham?

The expression to solve is:

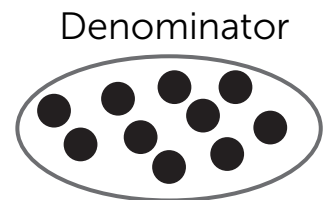
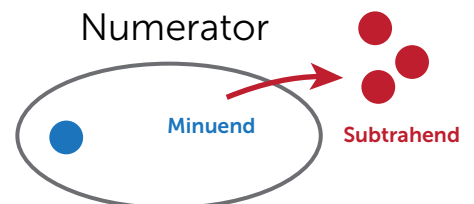
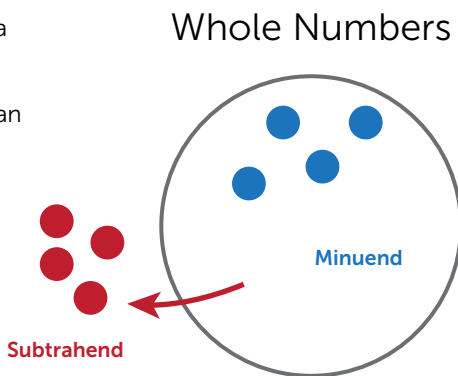
$$\underline{8\frac{4}{10} - 4\frac{3}{10}}$$

This is a model of:

$$\underline{8\frac{4}{10} - 4\frac{3}{10}}$$

The difference is:

$$\underline{4\frac{1}{10}}$$



4. There was five and five-sevenths of a pizza leftover from our birthday party. But dad came home and ate three and four-sevenths of the pizza! How much was left?

The expression to solve is:

$$\underline{5\frac{5}{7} - 3\frac{4}{7}}$$

This is a model of:

$$\underline{5\frac{5}{7} - 3\frac{4}{7}}$$

The difference is:

$$\underline{2\frac{1}{7}}$$

