

Use Cuisenaire Rods to model the ratios shown.  
Write the ratio three different ways.



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Using Cuisenaire Rods, model the ratio. Sketch the model.  
Write the ratio two more ways.

2. 1:3

\_\_\_\_\_

\_\_\_\_\_

3.  $\frac{2}{5}$

\_\_\_\_\_

\_\_\_\_\_

Write each ratio two more ways.

4. 2:3

\_\_\_\_\_

\_\_\_\_\_

5. 1 to 5

\_\_\_\_\_

\_\_\_\_\_

6. 3:4

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

8. 6:1

\_\_\_\_\_

\_\_\_\_\_

9.  $\frac{2}{8}$

\_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

**Challenge!** How are the ratios 3 to 7 and 7 to 3 different?  
Use a diagram to help.

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Use Cuisenaire Rods to model each proportion. Then solve the proportion using the rods.

1.  $\frac{1}{6} = \frac{2}{?}$



$\frac{1}{6} = \frac{2}{\square}$

2.  $\frac{2}{5} = \frac{4}{?}$



$\frac{2}{5} = \frac{4}{\square}$

Using Cuisenaire Rods, model each proportion. Sketch the model. Then solve the proportion.

3.  $\frac{3}{2} = \frac{?}{6}$

$\frac{3}{2} = \frac{\square}{6}$

4.  $\frac{?}{8} = \frac{1}{4}$

$\frac{\square}{8} = \frac{1}{4}$

Solve each proportion.

5.  $\frac{2}{3} = \frac{6}{\square}$

6.  $\frac{1}{3} = \frac{\square}{9}$

7.  $\frac{5}{6} = \frac{20}{\square}$

8.  $\frac{4}{5} = \frac{\square}{15}$

9.  $\frac{\square}{8} = \frac{1}{2}$

10.  $\frac{2}{5} = \frac{\square}{25}$

Name \_\_\_\_\_

**Challenge!** What question do you ask yourself to solve Question 6?  
What question do you ask yourself to solve Question 9? How do the  
problems and questions differ?

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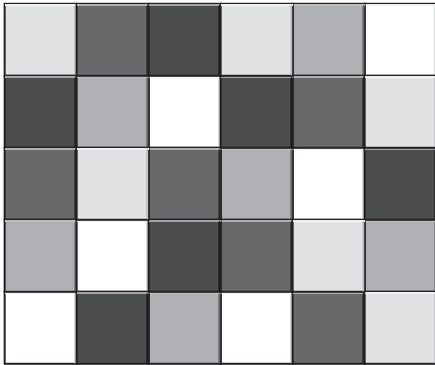
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**Use Color Tiles to model the rectangle shown. Use the ratio represented to write and solve a proportion for the problem.**

1. 5 yards of fabric made a banner that was 30 square feet.



How many yards of fabric are needed to make a banner that is 120 square feet?

\_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_

**Using Color Tiles, model a rectangle for the ratio described. Sketch the model. Then write a proportion to solve the problem.**

2. 4 cups of flour made 28 dozen cookies.

How many cups of flour are needed to make 35 dozen cookies?

\_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_

**Solve each proportion.**

3.  $\frac{7}{1} = \frac{49}{x}$

4.  $\frac{8}{10} = \frac{x}{35}$

5.  $\frac{2}{3} = \frac{x}{18}$

6.  $\frac{2}{x} = \frac{10}{60}$

7.  $\frac{x}{7} = \frac{12}{28}$

8.  $\frac{1}{3} = \frac{x}{36}$

Name \_\_\_\_\_

**Challenge!** If you use a proportion to solve a scale factor problem related to a map, given the scale factor is 1 in. = 12 mi, how do you use the actual distance of 180 miles to find the distance on the map? Write the proportion.

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