

Name \_\_\_\_\_ Date \_\_\_\_\_

**Skills Maintenance****Proportions****Activity 1**

Write the value for the variable.

1.  $\frac{a}{16} = \frac{1}{4}$   $a =$  \_\_\_\_\_

2.  $\frac{b}{24} = \frac{1}{6}$   $b =$  \_\_\_\_\_


3.  $\frac{2}{3} = \frac{c}{15}$   $c =$  \_\_\_\_\_

4.  $\frac{3}{4} = \frac{9}{d}$   $d =$  \_\_\_\_\_

5.  $\frac{1}{e} = \frac{5}{30}$   $e =$  \_\_\_\_\_

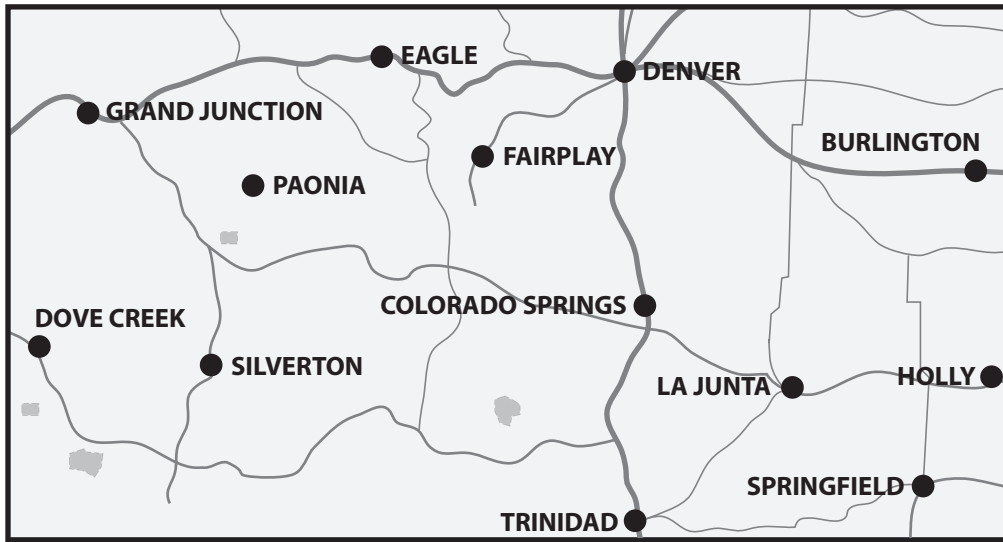
6.  $\frac{1}{2} = \frac{20}{f}$   $f =$  \_\_\_\_\_

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 **Problem-Solving Activity**  
Proportions and Map Reading

Set up a proportion to compute the actual distance in miles between cities on a map. Use the scale 1 inch = 50 miles.

Unit 2



1. Dove Creek and La Junta are 4 inches apart on the map. Write a proportion with a variable to compute the distance in miles.

$$\frac{\text{Inches}}{\text{Miles}} \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Write the proportion again, replacing the variable with its value.

$$\frac{\text{Inches}}{\text{Miles}} \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

What is the distance between Dove Creek and La Junta in miles? \_\_\_\_\_ miles

2. Dove Creek and Holly are 5 inches apart on the map. Write a proportion with a variable to compute the distance in miles.

$$\frac{\text{Inches}}{\text{Miles}} \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Write the proportion again, replacing the variable with its value.

$$\frac{\text{Inches}}{\text{Miles}} \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

What is the distance between Dove Creek and Holly in miles? \_\_\_\_\_ miles

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## Problem-Solving Activity

### Proportions and Map Reading

Turn to the map on page 199 of the *Student Textbook*. The scale for this map is 1 inch = 5 miles. Use your thumb as an informal measuring tool, and record the distances to the nearest inch.

Starting Point	Ending Point	Approximate Inches Between Points
Lookout Point	Crow Valley	
Canyon View	Lookout Point	
Devils Kitchen	Crow Valley	
Ute Canyon View	Devils Kitchen	

Use the approximate distances in inches you recorded in the table to answer the questions.

1. What is the actual mileage between Lookout Point and Crow Valley?
- a. Set up the proportion statement with a variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

- b. Find the value of the variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

Answer \_\_\_\_\_

2. What is the actual mileage between Canyon View and Lookout Point?
- a. Set up the proportion statement with a variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

- b. Find the value of the variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

Answer \_\_\_\_\_

3. What is the actual mileage between the Devils Kitchen and Crow Valley?
- a. Set up the proportion statement with a variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

- b. Find the value of the variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

Answer \_\_\_\_\_

4. What is the actual mileage between Ute Canyon View and Devils Kitchen?
- a. Set up the proportion statement with a variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

- b. Find the value of the variable.

$$\frac{\text{Inches}}{\text{Miles}} =$$

Answer \_\_\_\_\_



### Reinforce Understanding

Use the *mBook Study Guide* to review lesson concepts.