#### Name .

## Add Fractional Parts of 10 and 100

Essential Question How can you add fractions when the denominators are 10 or 100?

# Lesson 9.6

Number and Operations—

Common

Core



**B** Add.

$$\frac{10}{100} + \frac{10}{100} = \frac{10}{100}$$

So, 
$$\frac{4}{100} + \frac{10}{100} = \frac{14}{100}$$

Fractions—4.NF.C.5 Also 4.MD.A.2



Sean lives 0.5 mile from the store. The store is 0.25 mile from his grandmother's house. Sean is going to walk to the store and then to his grandmother's house. How far will he walk?





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fraction of a dollar.





**1.** Find  $\frac{7}{10} + \frac{5}{100}$ .

Think: Write the addends as fractions with a common denominator.



#### Find the sum.

 2.  $\frac{1}{10} + \frac{11}{100} =$  Image: 3.  $\frac{36}{100} + \frac{5}{10} =$  

 Image: 4. \$0.16 + \$0.45 = \$ 5. \$0.08 + \$0.88 = \$ 

 Image: 5. \$0.08 + \$0.88 = \$ 5. \$0.08 + \$0.88 = \$ 

 Image: 6.  $\frac{6}{10} + \frac{25}{100} =$  7.  $\frac{7}{10} + \frac{7}{100} =$  

 8. \$0.55 + \$0.23 = \$ 9. \$0.19 + \$0.13 = \$ 

PRACTICE 2 Reason Quantitatively Algebra Write the number that makes the equation true.

10.	$\frac{20}{100} + $	10	$=\frac{60}{100}$		11.	$\frac{2}{10} +$	100	$=\frac{90}{100}$

**12. CODEEPER** Jerry had 1 gallon of ice cream. He used <sup>3</sup>/<sub>10</sub> gallon to make chocolate milkshakes and 0.40 gallon to make vanilla milkshakes. How much ice cream does Jerry have left after making the milkshakes?

## Common MATHEMATICAL PRACTICES MODEL • REASON • MAKE SENSE

# Problem Solving • Applications 🔓

### Use the table for 13–16.

**13. THINK SMARTER** Dean selects Teakwood stones and Buckskin stones to pave a path in front of his house. How many meters long will each set of one Teakwood stone and one Buckskin stone be?



- **14.** The backyard patio at Nona's house is made from a repeating pattern of one Rose stone and one Rainbow stone. How many meters long is each pair of stones?
- **15. GODEEPER** For a stone path, Emily likes the look of a Rustic stone, then a Rainbow stone, and then another Rustic stone. How long will the three stones in a row be? Explain.
- **16. WRITE** *Math* Which two stones can you place end-to-end to get a length of 0.38 meter? Explain how you found your answer.

**17. THINKSMARTER** Christelle is making a dollhouse. The dollhouse is  $\frac{6}{10}$  meter tall without the roof. The roof is  $\frac{15}{100}$  meter high. What is the height of the dollhouse with the roof? Choose a number from each column to complete an equation to solve.

$$\frac{6}{10} + \frac{15}{100} = \begin{bmatrix} \frac{6}{100} \\ \frac{60}{100} \\ \frac{61}{100} \end{bmatrix} + \begin{bmatrix} \frac{15}{10} \\ \frac{5}{10} \\ \frac{5}{100} \end{bmatrix} = \begin{bmatrix} \frac{65}{100} \\ \frac{7}{10} \\ \frac{75}{100} \end{bmatrix} \text{ meters}$$

4	Paving Stone Center					
Sty	le	Length (in meters)				
Rus	stic	<u>15</u> 100				
Tea	kwood	<u>3</u> 10				
Buc	ckskin	<u>41</u> 100				
Rai	nbow	<u>6</u> 10	- Ant			
Ros	Se	<u>8</u> 100	-			
	La Clesha					
715	- Feller					

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#### Name .

# Add Fractional Parts of 10 and 100

#### Find the sum.

1.  $\frac{2}{10} + \frac{43}{100}$  $\frac{20}{100} + \frac{43}{100} = \frac{63}{100}$ 

<u>-63</u> 100

**2.**  $\frac{17}{100} + \frac{6}{10}$ 

**3.**  $\frac{9}{100} + \frac{9}{10}$ 

**4.** \$0.25 + \$0.34



- 5. Ned's frog jumped  $\frac{38}{100}$  meter. Then his frog jumped  $\frac{4}{10}$  meter. How far did Ned's frog jump?
- **6.** Keiko walks  $\frac{5}{10}$  kilometer from school to the park. Then she walks  $\frac{19}{100}$  kilometer from the park to her home. How far does Keiko walk?

**7. WRITE** Math Explain how you would use equivalent fractions to solve 0.5 + 0.10.

Practice and Homework Lesson **9.6** 



**COMMON CORE STANDARD**—4.NF.C.5 Understand decimal notation for fractions, and compare decimal fractions.

**Think:** Write  $\frac{2}{10}$  as a fraction with a denominator of 100:

 $\frac{2 \times 10}{10 \times 10} \times \frac{20}{100}$ 

## Lesson Check (4.NF.C.5)

- **1.** In a fish tank,  $\frac{2}{10}$  of the fish were orange and  $\frac{5}{100}$  of the fish were striped. What fraction of the fish were orange or striped?
- 2. Greg spends \$0.45 on an eraser and \$0.30 on a pen. How much money does Greg spend?

### Spiral Review (4.NF.A.1, 4.NF.B.3d, 4.MD.A.2)

- **3.** Phillip saves \$8 each month. How many months will it take him to save at least \$60?
- **4.** Ursula and Yi share a submarine sandwich. Ursula eats  $\frac{2}{8}$  of the sandwich. Yi eats  $\frac{3}{8}$  of the sandwich. How much of the sandwich do the two friends eat?

- **5.** A carpenter has a board that is 8 feet long. He cuts off two pieces. One piece is  $3\frac{1}{2}$  feet long and the other is  $2\frac{1}{3}$  feet long. How much of the board is left?
- **6.** Jeff drinks  $\frac{2}{3}$  of a glass of juice. Write a fraction that is equivalent to  $\frac{2}{3}$ .

