

Name _____

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Sebastian has $\frac{6}{8}$ of the charge left on his phone. He uses $\frac{2}{8}$ of the charge playing a game. What fraction of the charge does he have left? **Solve this problem any way you choose.**

You can use tools, such as a number line, to model this problem. **Show your work in the space below!**



Lesson 11-6

Adding and Subtracting on the Number Line

TEKS 4.3E Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations. Mathematical Process Standards 4.1B, 4.1C, 4.1D, 4.1E, 4.1G

Digital Resources at PearsonTexas.com



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Tools



Games

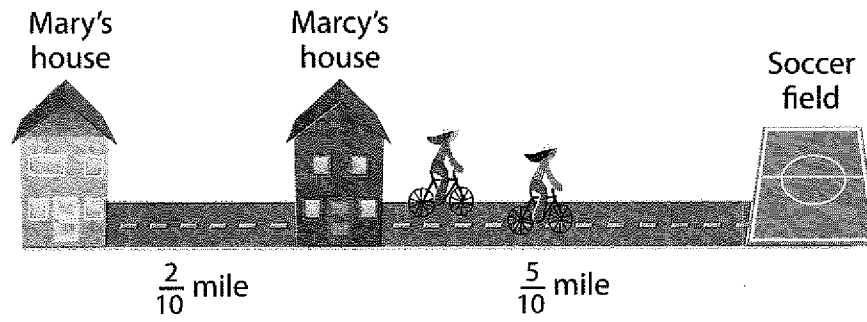
Look Back!

Number Sense What fraction is equivalent to the amount of charge that Sebastian used when playing the game?

How Do You Add Fractions on a Number Line?

Mary rides her bike $\frac{2}{10}$ mile to pick up her friend Marcy for soccer practice. Together, they ride $\frac{5}{10}$ mile to the soccer field. What is the distance from Mary's house to the soccer field?

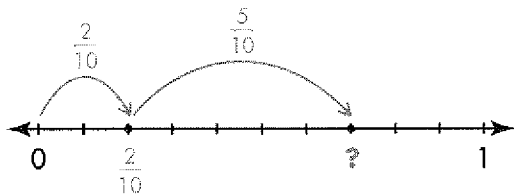
Add to find the total distance.



Move right on the number line to model addition.

Draw a number line for tenths. Start at 0.

Move 2 spaces to the right to show adding $\frac{2}{10}$. Then move 5 more spaces to the right to show adding $\frac{5}{10}$.



Write the addition sentence.

Add the numerators.

$$\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$$

The distance from Mary's house to the soccer field is $\frac{7}{10}$ mile.

Do You Understand?

Convince Me! Use the number line below to find $\frac{5}{8} + \frac{2}{8}$. Can you also use the number line to find $\frac{5}{8} - \frac{2}{8}$? Explain.

