

Name \_\_\_\_\_

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**Solve & Share**

Karyn has  $\frac{11}{8}$  pounds of chili to put into three bowls. The amount of chili in each bowl does not have to be the same. How much could she put into each bowl? *Solve this problem any way you choose.*

You can use representations. How can you represent the total amount of chili? *Show your work in the space below!*



## Lesson 11-2

### Decomposing Fractions

TEKS 4.3B Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations. Also, 4.3A. Mathematical Process Standards 4.1A, 4.1C, 4.1D, 4.1E, 4.1F, 4.1G

Digital Resources at PearsonTexas.com



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### Look Back!

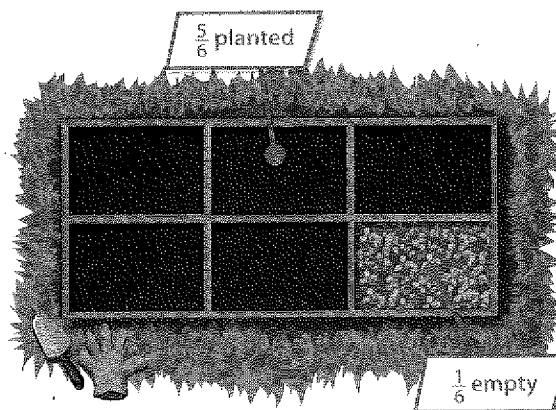
Connect Ideas Which of the fractions that you found are in simplest form?

# How Can You Represent a Fraction in a Variety of Ways?

*Decomposing means to break into parts.*

*Charlene wants to leave  $\frac{1}{6}$  of her garden empty. What are some different ways she can plant the rest of her garden?*

The fraction of the garden that Charlene will plant can be broken apart in more than one way.

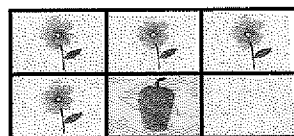


## Decompose the fraction into parts.

### One Way

She could plant 4 sections of blue flowers and 1 section of red peppers.

$\frac{5}{6}$  is  $\frac{4}{6}$  and  $\frac{1}{6}$ .

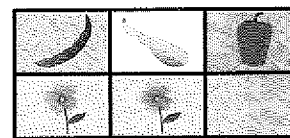


$$\frac{5}{6} = \frac{4}{6} + \frac{1}{6}$$

### Another Way

She could plant 1 section of green beans, 1 section of yellow squash, 1 section of red peppers, and 2 sections of blue flowers.

$\frac{5}{6}$  is  $\frac{1}{6}$  and  $\frac{1}{6}$  and  $\frac{1}{6}$  and  $\frac{2}{6}$ .



$$\frac{5}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{2}{6}$$

## Do You Understand?

Convince Me! Draw pictures like the ones above to show why both of these equations are true.

$$\frac{5}{6} = \frac{3}{6} + \frac{2}{6}$$

$$\frac{5}{6} = \frac{1}{6} + \frac{2}{6} + \frac{2}{6}$$