Name _____

Lesson 11-4
Modeling Subtraction of Fractions

Solve & Share

Mr. Yetkin uses $\frac{4}{6}$ of a sheet of plywood to board up a window. How much of the plywood is left? ***Solve this problem any way you choose.***

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. Also, 4.3. Mathematical Process Standards 4.1A, 4.1C, 4.1D, 4.1E

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You can use tools. Fraction strips can help you model this problem. ***Show your work in the space below!***

Look Back!

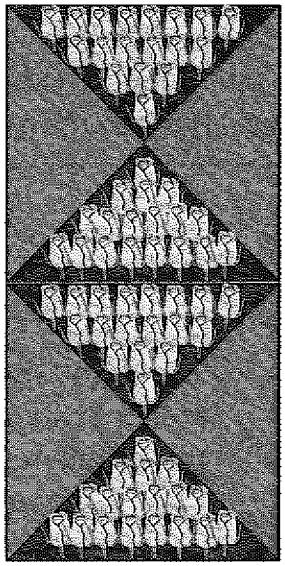
Create and Use Representations What expression can you use to solve this problem?

How Can You Use Fraction Strips to Subtract Fractions?

A flower garden is divided into eight equal sections.

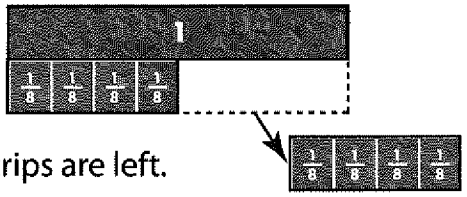
If four sections are used to grow yellow roses, what fraction is left to grow other flowers?

Take away a part from the whole to find the difference.



Use objects.

a Use eight $\frac{1}{8}$ fraction strips to represent the whole flower garden. Take four strips away.



Four strips are left.

So, $\frac{4}{8}$ of the garden is left to grow other flowers.

c Subtract the numerators. Write the part taken away over the like denominator.

$$\frac{8}{8} - \frac{4}{8} = \frac{4}{8}$$

Write the difference in simplest form.

$$\frac{4 \div 4}{8 \div 4} = \frac{1}{2}$$

So, $\frac{1}{2}$ of the garden is left to grow other flowers.

Do You Understand?

Convince Me! In the problem above, suppose four sections of the garden grow yellow roses and two other sections grow petunias. How much more of the garden is used for yellow roses than is used for petunias? Write your answer as a fraction.

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