Name

# **Another Look!**

Each Monday in science class, students measure the height of their plants. In week 3, Andrew's plant was  $4\frac{3}{4}$  inches tall. In week 4, his plant was  $5\frac{3}{8}$  inches tall. How much had the plant grown from week 3 to week 4?

## Tell how you can use math to model the problem.

- I can use math I know to help solve the problem.
- I can use bar diagrams and equations to represent and solve this problem.

## Draw a bar diagram and write an equation to solve.





Additional

Practice 7-12

**Model with Math** 

Mrs. Lohens made curtains for her children's bedrooms. She used  $4\frac{3}{4}$  yards of fabric for Nicky's room and  $6\frac{5}{8}$  yards for Linda's room. How much fabric did she use in all?

**1.** Draw a diagram and write an equation to represent the problem.

Sample answer:  
y yards  

$$4\frac{3}{4}$$
  $6\frac{5}{8}$   
 $y = 4\frac{3}{4} + 6\frac{5}{8}$ 

2. Solve the equation. What fraction computations did you do?

 $y = 11\frac{3}{8}$ ; I added:  $4\frac{3}{4} + 6\frac{5}{8} = 4\frac{6}{8} + 6\frac{5}{8} = 10\frac{11}{8} = 11\frac{3}{8}$ 

3. How much fabric did Mrs. Lohens use for the curtains?

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11\frac{3}{8} yards
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### Performance Task

### Fans in the Bleachers

In the bleachers at the basketball game,  $\frac{1}{4}$  of the fans are adult men, and  $\frac{5}{12}$  are adult women. What fraction of the fans are adults? What fraction of the fans are children?

**4. Make Sense and Persevere** What do you know and what do you need to find?

 $\frac{1}{4}$  of the fans are men, and  $\frac{5}{12}$  are women. What fraction are adults; What fraction are children.

**5. Reasoning** What quantities and operations will you use to find the fraction of the fans that are adults? that are children?

To find the fraction of fans that are adults, add  $\frac{1}{4} + \frac{5}{12}$ . To find the fraction that are children, subtract the sum from 1.

**6. Critique Reasoning** Phyllis says you have to know the number of fans in order to determine the fraction of the fans that are children. Is she right? Explain.

No. Sample explanation: The whole, 1, is the sum of the fractions for adults and for children. Subtract the fraction for adults from 1 to find the fraction for children.

7. Model with Math Draw a diagram and use an equation to help you find the fraction of the fans that are adults. Then draw a diagram and use an equation to help you find the fraction of the fans that are children.



When you model with math, you decide what steps need to be completed to find the final answer.



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