Name	Date	Page

## Problem Solving Skill 4 - 6F

#### **Equations with Variables**

**Directions:** Write an equation with a variable that shows this problem. Then solve the equation.

Mr. Cole bought a pizza for the swim club. The pizza has 12 slices. The pizza will be divided equally among the swimmers. Each swimmer will eat 3 slices. How many swimmers will eat pizza?

12 
$$\downarrow$$
  $y = 3$ 

12  $\div y = 3$ 

12  $\div y = 3$ 

12  $\div 4 = 3$ 

13  $\div 4 = 3$ 

14  $\div 4 = 3$ 

15  $\div 4 = 3$ 

17  $\div 4 = 3$ 

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15  $\div 4 = 3$ 

16  $\div 4 = 3$ 

17  $\div 4 = 3$ 

18  $\div 4 = 3$ 

19  $\div 4 = 3$ 

10  $\div 4 = 3$ 

**1.** There are some slices of pizza. John takes 2 slices. Now there are 7 slices. How many slices were there before John took 2 slices?

2. Joey puts 21 marbles in an equal number of rows with 7 marbles in each row. How many rows will Joey make?

**3.** Lena had 15 bracelets. She got some more bracelets as a present from a friend. She now has a total of 21 bracelets. How many bracelets did Lena get from her friend?

Name	Date	Page
1 tarrie	Bate	90

# Problem Solving Skill 4 - 6F

#### **Equations with Variables**

Write an equation with a variable that shows this problem. Then solve the equation.

16 slices of pizza divided equally among a number of students is 4 slices each.

16 
$$\Rightarrow$$
  $y = 4$ 

$$\downarrow$$
 16  $\Rightarrow$   $y = 4$ 

$$\downarrow$$
 of pizza divided equally among how many students?  $y = 4$ 

**4.** 8 slices of pizza divided equally among a number of students is 2 slices each.

**5.** Jason added 5 matchbox cars to his collection. He now has 37 matchbox cars. How many cars did he have before he added 5 more?

**6.** Marsha had 24 marbles. She gave some away. Now she has 18 marbles. How many marbles did she give away?

### Answer Key Skill 4 - 6F

**1.** There are some slices of pizza. John takes 2 slices. Now there are 7 slices. How many slices were there before John took 2 slices?

y - 2 = 7

There were 9 pieces before John took 2 slices.

9 - 2 = 7

y = 9

2. Joey puts 21 marbles in an equal number of rows with 7 marbles in each row. How many rows will Joey make?

 $21 \div v = 7$ 

He will make 3 rows.

 $21 \div 3 = 7$ 

y = 3

**3.** Lena had 15 bracelets. She got some more bracelets as a present from a friend. She now has a total of 21 bracelets. How many bracelets did Lena get from her friend?

15 + x = 21

Lena got 6 bracelets as a present from a friend.

15 + 6 = 21

*x* - 6

**4.** 8 slices of pizza divided equally among a number of students is 2 slices each.

$$8 \div y = 2$$

$$8 \div 4 = 2$$

$$y = 4$$

**5.** Jason added 5 matchbox cars to his collection. He now has 37 matchbox cars. How many cars did he have before he added 5 more?

y + 5 = 37

Jason had 32 cars before he added 5 more.

$$32 + 5 = 37$$

$$y = 32$$

**6.** Marsha had 24 marbles. She gave some away. Now she has 18 marbles. How many marbles did she give away?

24 - x = 18

Marsha gave away 6 marbles.

24 - 6 = 18

x = 6