

# STRETCH

LESSON 3B

## Solve Multi-Step Ratio Problems

### ENGAGE

### Analyze a Problem

A food truck sells tofu, chicken, and fish tacos. The ratio of tofu tacos, chicken tacos, and fish tacos sold is 1:2:3. If the food truck sells 12 tofu tacos today, how many tacos will it sell altogether?

The food truck sells \_\_\_\_\_ tacos altogether.

### EXPLORE

#### STRATEGY BANK

Write an Equation

Draw a Model

Look for Patterns

Make a List

Guess-and-Check

Work Backwards

Simplify the Problem

### Solve a Problem Using Multiple Strategies

› Draw a model to represent the problem. Then, solve the problem.

Draw a Model

The sales ratio of Lee, Kal, and Pat is 1:3:5. If Kal earns \$150 in sales, what is the sales team's total earnings?

The sales team's total earnings is \$\_\_\_\_\_.

› Write an equation to represent the problem. Then, solve the problem.

Write an Equation

The sales ratio of Lee, Kal, and Pat is 1:3:5. If Kal earns \$150 in sales, what is the sales team's total earnings?

The sales team's total earnings is \$\_\_\_\_\_.

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## Solve Multi-Step Ratio Problems

(continued)

### PRACTICE

### Apply Your Skills to Solve More Problems

Jamie divides her time between three marketing clients in a ratio of 1:2:4. This week, she spends 24 hours working for her largest client. How many hours does Jamie work altogether this week?

A tech company sells MP3 players, tablet computers, and mobile phones in a ratio of 2:5:8. If 6 people buy MP3 players, how many products does the tech company sell altogether?

Jamie works \_\_\_\_\_ hours altogether this week.

The tech company sells \_\_\_\_\_ products altogether.

### CHALLENGE

### Solve a More Complex Problem

Nolan has pennies, nickels, dimes, and quarters. He has twice as many nickels as pennies, twice as many dimes as nickels, and twice as many quarters as dimes. If he has 3 pennies, how many coins does Nolan have altogether?

Nolan has \_\_\_\_\_ coins altogether.

### REFLECT

### Wrap Up

► How does drawing bar models help you to solve complex ratio problems?

*Drawing bar models helps me to solve complex ratio problems by \_\_\_\_\_*

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