

Lesson 3-1 • Apply Day

Reinforce Understanding

Ratios with Tape Diagrams

I can write and describe a ratio that compares two quantities.

Worked model

Paint mixes 3 cups blue for every 1 cup white. The painter needs 24 cups in all.

1. Add the terms to find total parts. $3 + 1 = 4$ parts
2. Divide the total by the parts. $24 \div 4 = 6$ cups in each box
3. Multiply each row by 6. blue: $3 \times 6 = 18$ white: $1 \times 6 = 6$
4. Check by adding. $18 + 6 = 24$ ✓

Answer: The painter needs 18 cups blue and 6 cups white.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. A new model has 2 blue tiles for every 3 gold tiles. Write the ratio blue:gold.

Complete each step, then write the final answer.

1. Blue tiles: ____.
2. Gold tiles: ____.
3. Write blue first, then gold: ____.

Answer: _____

2. A new model has 3 blue tiles for every 5 gold tiles. Write the ratio blue:gold.

Complete each step, then write the final answer.

1. Blue tiles: ____.
2. Gold tiles: ____.
3. Write blue first, then gold: ____.

Answer: _____

3. A new model has 4 blue tiles for every 7 gold tiles. Write the ratio blue:gold.

Complete each step, then write the final answer.

1. Blue tiles: ____.
2. Gold tiles: ____.
3. Write blue first, then gold: ____.

Answer: _____