

Lesson 6-2 • Apply Day

Reinforce Understanding

Dividing with Mixed Numbers

I can divide a fraction by a fraction and divide with mixed numbers by multiplying by the reciprocal.

Worked model

A ribbon is $6\frac{3}{4}$ meters long. Each bow uses $2\frac{1}{4}$ meters. How many bows can be made?

1. Change both to improper fractions. $6\frac{3}{4} = \frac{27}{4}$ $2\frac{1}{4} = \frac{9}{4}$
2. Keep, Change, Flip. $\frac{27}{4} \times \frac{4}{9}$
3. Multiply across. $\frac{108}{36}$
4. Simplify. $\frac{108}{36} = 3$ bows

Answer: The ribbon makes 3 bows that each use $2\frac{1}{4}$ meters.

Practice

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

1. (Lesson 6.1) Divide the whole number by the unit fraction: $2 \div \frac{1}{4}$.

Complete each step, then write the final answer.

$\frac{1}{4}$ Bar Model

1. Keep the first number: ____.
2. Use the reciprocal of $\frac{1}{4}$: ____.
3. Multiply and simplify: ____.

Answer: _____

2. (Lesson 6.1) Divide the fraction by the whole number: $\frac{3}{5} \div 3$.

Complete each step, then write the final answer.

$\frac{1}{4}$ Bar Model

1. Keep the first number: ____.
2. Use the reciprocal of 3: ____.
3. Multiply and simplify: ____.

Answer: _____

3. (Lesson 6.1) Divide the whole number by the unit fraction: $3 \div \frac{1}{7}$.

Complete each step, then write the final answer.

$\frac{1}{4}$ Bar Model

1. Keep the first number: ____.
2. Use the reciprocal of $\frac{1}{7}$: ____.
3. Multiply and simplify: ____.

Answer: _____