NAME:

Math
PATHWAYS&PITFALLS

Purpose

To name fraction amounts in lowest terms using a set model

Math Words

set   There are 4 boxes in this set.

terms   The terms of a fraction are the numerator and denominator.

lowest terms $\frac{4}{8}$, $\frac{2}{4}$, and $\frac{1}{2}$ are all equal,

but $\frac{1}{2}$ is in lowest terms.

Starter Problem

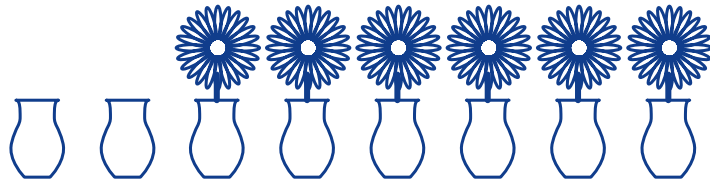What fraction of the set of vases does not have flowers? Write the fraction in lowest terms.

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Starter Problem

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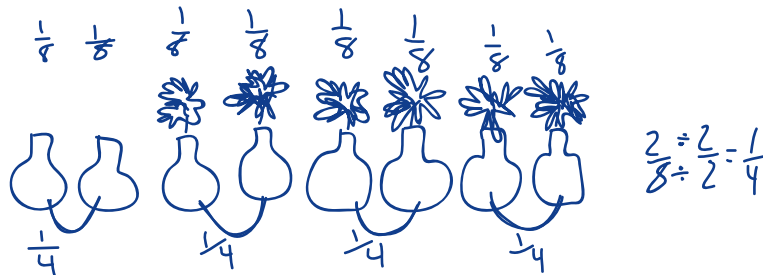
Student Thinking

Denise

If I think of the whole set in 8 parts, two eighths of the vases do not have flowers. If I group by 2's, one fourth of the vases don't have flowers. One fourth is in lowest terms. I also get one fourth if I divide both terms of two eighths by 2.

OK

$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$

$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

Frankie

This is simple. 2 vases don't have flowers and 6 do. That's two sixths. It's the same as one third in lowest terms.

Pitfall

$\frac{2}{6} = \frac{1}{3}$

Things to Remember

✻ ....

....

✻ ....

....

STOP

Math Pathways & Pitfalls® ✻ Unit 4 ✻ Lesson 4
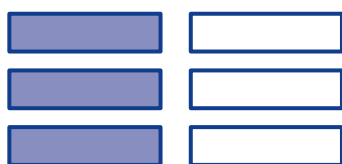
NAME:

Our Turn

Write a fraction(s) for each problem.

1. Write two equivalent fractions that tell what fraction of the set of rectangles is white. Circle the fraction that is in lowest terms.

$$\frac{\quad}{\quad} \text{ or } \frac{\quad}{\quad}$$

2. Write two equivalent fractions that tell what fraction of the set of triangles is black. Circle the fraction that is in lowest terms.

$$\frac{\quad}{\quad} \text{ or } \frac{\quad}{\quad}$$
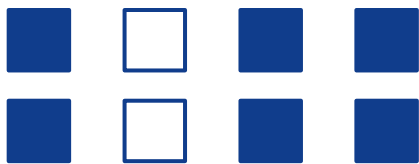
3. Write this fraction in lowest terms.

$$\frac{4}{8} = \frac{\quad}{\quad}$$

NAME:

My Turn

Write a fraction(s) for each problem.

1. Write two equivalent fractions that tell what fraction of the set of squares is white. Circle the fraction that is in lowest terms.

    ──── or ────

2. Write three equivalent fractions that tell what fraction of the set of marbles is black. Circle the fraction that is in lowest terms.

    ──── or ──── or ────

3. Write this fraction in lowest terms.

    $\dfrac{8}{10}$ = ────

NAME:

Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. Which picture shows $\frac{3}{4}$ of the set of squares shaded?

   Ⓐ Ⓑ Ⓒ not given

2. Which picture shows that $\frac{1}{3}$ of the shapes are squares?

   Ⓐ Ⓑ Ⓒ

NAME:

Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

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Writing Task Mini Lesson

Explain how you know that $\frac{3}{5}$ is the lowest-terms fraction equal to $\frac{6}{10}$.
You may draw a picture on the back to help you explain.