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## Fractions of a Group

Learning Objective You will use fractions
Essential Question How can a fraction name part of a group?

## Unlock the Problem

Jake and Emma each have a collection of marbles.
What fraction of each collection is blue?
(P) You can use a fraction to name part of a group.


Read: three eighths, or three out of eight Write: $\frac{3}{8}$

So, $\qquad$ of Jake's marbles are blue.

Emma's Marbles


Read: one fourth, or one out of four Write: $\frac{1}{4}$

So, $\qquad$ of Emma's marbles are blue.

## Try This! Name part of a group.

Draw 2 red counters and 6 yellow counters.
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So, $\qquad$ of the counters are red and $\qquad$ are not red.

## Fractions Greater Than 1

Sometimes a fraction can name more than a whole group.

Daniel collects baseballs. He has collected 8 so far. He puts them in cases that hold 4 baseballs each. What part of the baseball cases has Daniel filled?

Think: 1 case $=1$
Daniel has two full cases of 4 baseballs each.


So, 2 , or $\frac{8}{4}$, baseball cases are filled.


Try This! Complete the whole number and the fraction greater than 1 to name the part filled.

## A



Think: 1 pan = 1
©


Think: 1 box $=1$

## Share and Show




Math Processes and Practices (6)
Explain another way to name the fraction for Exercise 3.

Think: How many red counters are there?
How many counters are there in all?

## Write a fraction to name the red part of each group.

2. 


$\bigcirc 3$.

$\qquad$
Write a whole number and a fraction greater than 1
to name the part filled.


Think: 1 carton = 1
$\checkmark 5$.


Think: 1 container = 1

## On Your Own

Write a fraction to name the blue part of each group.
6.


9.


9

Write a whole number and a fraction greater than 1 to name the part filled.
11. THINK SMARTER


Think: 1 carton = 1

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Think: 1 container = 1


Think: 1 container $=$

Draw a quick picture on your MathBoard. Then write a fraction to name the shaded part of the group.
12. Draw 8 circles.

Shade 8 circles.
13. Draw 8 triangles.

Make 4 groups.
Shade 1 group.
14. Draw 4 rectangles. Shade 2 rectangles.

