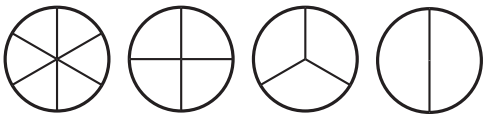
Student Guide

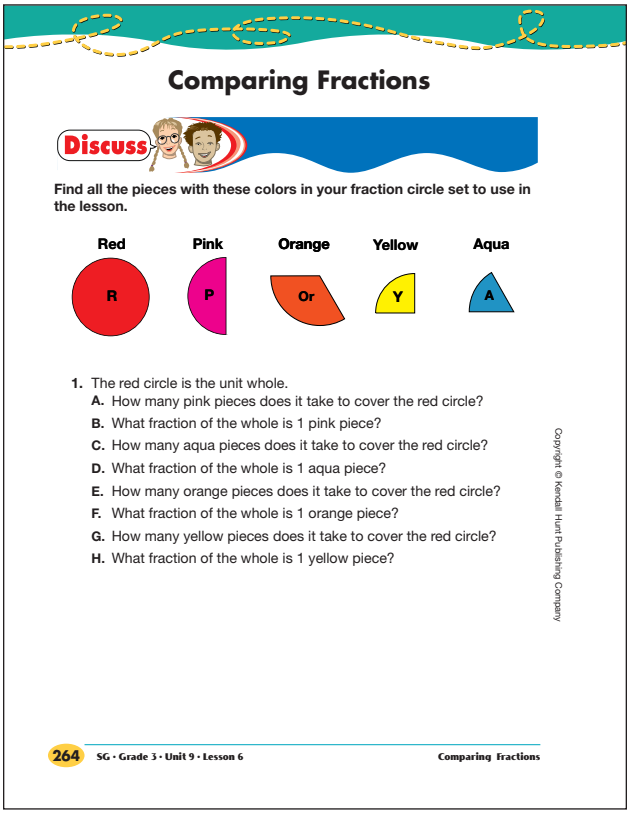
Comparing Fractions (SG pp. 264–265)
Questions 1–3

1. A. 2
   B. $\frac{1}{2}$
   C. 6
   D. $\frac{1}{6}$
   E. 3
   F. $\frac{1}{3}$
   G. 4
   H. $\frac{1}{4}$



2. A.* Wu
   $\frac{1}{4}$ of a pizza is more than $\frac{1}{6}$ of a same-size pizza. A yellow piece is larger than an aqua piece.
   B. 6
   C. 4
   D.* $\frac{1}{6}$
   E.* $\frac{1}{4}$

3. A. Dewey
   $\frac{1}{2}$ of a pizza is more than $\frac{1}{3}$ of a same-size pizza. When you share a pizza 2 ways, you get more than when you have to share 3 ways.
   B. 3
   C. 2
   D.* $\frac{1}{3}$
   E.* $\frac{1}{2}$



Comparing Fractions

Discuss

Find all the pieces with these colors in your fraction circle set to use in the lesson.

Red | Pink | Orange | Yellow | Aqua

R | P | Or | Y | A

1. The red circle is the unit whole.
   A. How many pink pieces does it take to cover the red circle?
   B. What fraction of the whole is 1 pink piece?
   C. How many aqua pieces does it take to cover the red circle?
   D. What fraction of the whole is 1 aqua piece?
   E. How many orange pieces does it take to cover the red circle?
   F. What fraction of the whole is 1 orange piece?
   G. How many yellow pieces does it take to cover the red circle?
   H. What fraction of the whole is 1 yellow piece?

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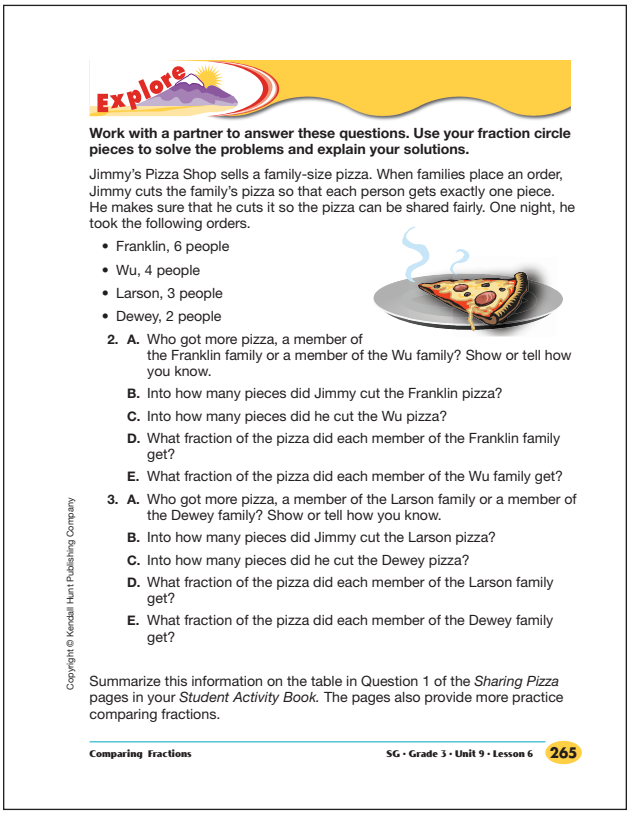

Explore

Work with a partner to answer these questions. Use your fraction circle pieces to solve the problems and explain your solutions.

Jimmy's Pizza Shop sells a family-size pizza. When families place an order, Jimmy cuts the family's pizza so that each person gets exactly one piece. He makes sure that he cuts it so the pizza can be shared fairly. One night, he took the following orders.

- Franklin, 6 people
- Wu, 4 people
- Larson, 3 people
- Dewey, 2 people

2. A. Who got more pizza, a member of the Franklin family or a member of the Wu family? Show or tell how you know.
   B. Into how many pieces did Jimmy cut the Franklin pizza?
   C. Into how many pieces did he cut the Wu pizza?
   D. What fraction of the pizza did each member of the Franklin family get?
   E. What fraction of the pizza did each member of the Wu family get?
3. A. Who got more pizza, a member of the Larson family or a member of the Dewey family? Show or tell how you know.
   B. Into how many pieces did Jimmy cut the Larson pizza?
   C. Into how many pieces did he cut the Dewey pizza?
   D. What fraction of the pizza did each member of the Larson family get?
   E. What fraction of the pizza did each member of the Dewey family get?

Summarize this information on the table in Question 1 of the *Sharing Pizza* pages in your *Student Activity Book.* The pages also provide more practice comparing fractions.

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***Answers and/or discussion are included in the lesson.**

Name _____ Date _____

Sharing Pizza

1. Use Jimmy's Pizza Shop information from Questions 2–3 in the *Student Guide* to complete the table.

Family	Number of People	Number of Equal-Size Pieces	Fraction of the Pizza for Each Person
Franklin			
Wu			
Larson			
Dewey			

2. Describe patterns that you see.

3. Each fraction shows a part of a family-size pizza. Which fraction is larger? Use >, <, or =.

A. $\frac{1}{6} \bigcirc \frac{1}{2}$ B. $\frac{1}{3} \bigcirc \frac{1}{4}$

C. $\frac{1}{3} \bigcirc \frac{1}{6}$ D. $\frac{1}{4} \bigcirc \frac{1}{2}$

4. Show or tell how you decided your answer for Question 3D.

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Name _____ Date _____

✓ **Check-In: Questions 5-7**

Complete Questions 5–7. Use fraction circle pieces and the *Fraction Chart* page in the *Student Guide* Reference section.

Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	Greater than $\frac{1}{2}$

5. Compare these fractions to $\frac{1}{2}$. Add them to the correct column on the table above.

A. $\frac{2}{3}$ B. $\frac{1}{6}$ C. $\frac{2}{4}$ D. $\frac{4}{4}$

E. $\frac{3}{8}$ F. $\frac{3}{6}$ G. $\frac{4}{8}$ H. $\frac{1}{4}$

I. $\frac{6}{8}$ J. $\frac{2}{2}$ K. $\frac{1}{3}$ L. $\frac{2}{8}$

6. The Smith family and the Brown family each ordered a family-size pizza from Jimmy's Pizza Shop. There are 6 people in the Smith family and 4 people in the Brown family.

A. Who got more pizza, a member of the Smith family or a member of the Brown family?

B. Show or tell how you know.

7. A. Nisha and Suzanne shared a pizza. Nisha ate $\frac{1}{4}$. Suzanne ate $\frac{2}{3}$. Who ate more pizza?

B. Show or tell how you know.

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Student Activity Book

Sharing Pizza (SAB pp. 359–360) Questions 1–7

1.*

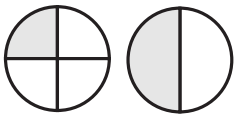
Family	Number of People	Number of Equal-Size Pieces	Fraction of the Pizza for Each Person
Franklin	6	6	$\frac{1}{6}$
Wu	4	4	$\frac{1}{4}$
Larson	3	3	$\frac{1}{3}$
Dewey	2	2	$\frac{1}{2}$

2.* Possible response: the number of pieces the pizza is divided into is the same as the denominator in the fraction.

3. A. $\frac{1}{6} < \frac{1}{2}$ B. $\frac{1}{3} > \frac{1}{4}$

C. $\frac{1}{3} > \frac{1}{6}$ D. $\frac{1}{4} < \frac{1}{2}$

4. $\frac{1}{2}$ of a pizza is more than $\frac{1}{4}$ of a pizza.



5.

Less Than $\frac{1}{2}$	Equal to $\frac{1}{2}$	Greater than $\frac{1}{2}$
B. $\frac{1}{6}$	C. $\frac{2}{4}$	A. $\frac{2}{3}$
E. $\frac{3}{8}$	F. $\frac{3}{6}$	D. $\frac{4}{4}$
H. $\frac{1}{4}$	G. $\frac{4}{8}$	I. $\frac{6}{8}$
K. $\frac{1}{3}$		J. $\frac{2}{2}$
L. $\frac{2}{8}$		

6. A. A member of the Brown Family

B. Possible response: I used the fraction chart to see that $\frac{1}{4}$ was bigger than $\frac{1}{6}$.

7. A. Suzanne

B. I know that $\frac{1}{4}$ is smaller than $\frac{1}{2}$ and $\frac{2}{3}$ is bigger than $\frac{1}{2}$, so $\frac{1}{4}$ will be smaller than $\frac{2}{3}$.

***Answers and/or discussion are included in the lesson.**

Sharing Brownies
Homework (SAB pp. 361–362)
Questions 1–2

1. **A.** 4

   B. 8

   C. $\frac{1}{4}$

   D. $\frac{1}{8}$

   E. John's brownies are larger. Each of John's brownies is $\frac{1}{4}$ of the pan; Each of Maya's brownies is $\frac{1}{8}$ of the same size pan. $\frac{1}{4}$ is larger than $\frac{1}{8}$.

   F. $\frac{1}{2}$ or $\frac{2}{4}$

   G. $\frac{3}{8}$

   H. The boys ate more. They ate $\frac{1}{2}$ of a pan, but the girls ate $\frac{3}{8}$, which is less than $\frac{1}{2}$ of a pan.

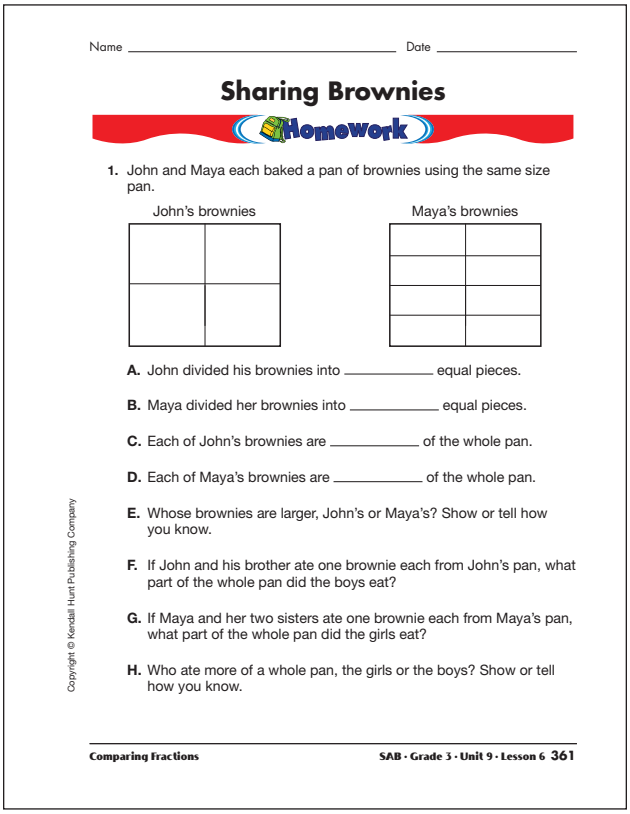
2. **A.** $\frac{1}{2} < \frac{3}{4}$

   B. $\frac{1}{2} > \frac{1}{3}$

   C. $\frac{1}{2} > \frac{3}{8}$

   D. $\frac{1}{2} < \frac{5}{6}$

   E. $\frac{1}{2} < \frac{2}{3}$



Name _____ Date _____

Sharing Brownies

Homework

1. John and Maya each baked a pan of brownies using the same size pan.

John's brownies | Maya's brownies

A. John divided his brownies into _____ equal pieces.

B. Maya divided her brownies into _____ equal pieces.

C. Each of John's brownies are _____ of the whole pan.

D. Each of Maya's brownies are _____ of the whole pan.

E. Whose brownies are larger, John's or Maya's? Show or tell how you know.

F. If John and his brother ate one brownie each from John's pan, what part of the whole pan did the boys eat?

G. If Maya and her two sisters ate one brownie each from Maya's pan, what part of the whole pan did the girls eat?

H. Who ate more of a whole pan, the girls or the boys? Show or tell how you know.

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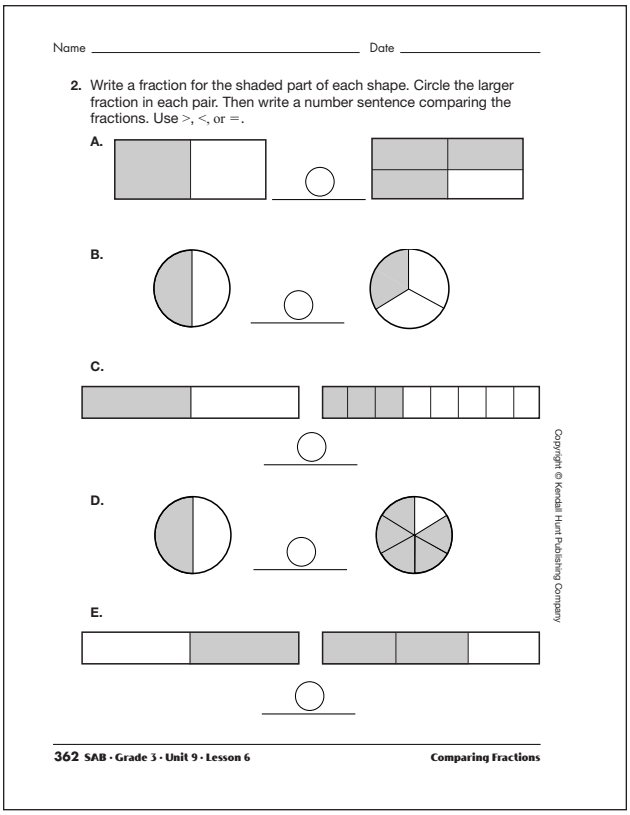

Name _____ Date _____

2. Write a fraction for the shaded part of each shape. Circle the larger fraction in each pair. Then write a number sentence comparing the fractions. Use >, <, or =.

A.

B.

C.

D.

E.

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