Name	Practice and Homework	
Problem Solving • Compare Fractions	Common Core common core standard—3.NF.A.3	
	Develop understanding of fractions as number.	
Solve.	s an which we had a should be a state of the second of the	
1. Luis skates $\frac{2}{3}$ mile from his home to school. Isabella skates $\frac{2}{4}$ mile to get to school. Who skates farther?	are his poleart a find. Company Prim as new 9223 Company	
Think: Use fraction strips to act it out.	Luis	
2. Sandra makes a pizza. She puts mushrooms on $\frac{2}{8}$ of the pizza. She adds		
green peppers to $\frac{5}{8}$ of the pizza. Which topping covers more of the pizza?		
3. The jars of paint in the art room have different amounts of paint. The green paint jar is $\frac{4}{8}$ full. The purple paint jar is $\frac{4}{6}$ full. Which paint jar is less full?		
4. Jan has a recipe for bread. She uses $\frac{2}{3}$ cup of flour and $\frac{1}{3}$ cup of chopped onion. Which ingredient does she use more of, flour or onion?		
5. WRITE Math Explain how you can find whether	$\frac{5}{6}$ or $\frac{5}{8}$ is greater.	

- 1. Ali and Jonah collect seashells in identical buckets. When they are finished, Ali's bucket is $\frac{2}{6}$ full and Jonah's bucket is $\frac{3}{6}$ full. Compare the fractions using >, < or =.
- 2. Rosa paints a wall in her bedroom. She puts green paint on $\frac{5}{8}$ of the wall and blue paint on $\frac{3}{8}$ of the wall. Compare the fractions using >, < or =.

 $\frac{5}{8}$

$$\frac{3}{6}$$

Spiral Review (3.0A.B.6, 3.0A.D.9, 3.NF.A.1)

- **3.** Dan divides a pie into eighths. How many equal parts are there?
- **4**. Draw lines to divide the circle into 4 equal parts.

- **5.** Charles places 30 pictures on his bulletin board in 6 equal rows. How many pictures are in each row?
- 6. Describe a pattern in the table.

Tables	1	2	3	4	5
Chairs	5	10	15	20	25







Problem Solving World

16. Ben mowed $\frac{5}{6}$ of his lawn in one hour. John mowed $\frac{4}{6}$ of his lawn in one hour. Who mowed less of his lawn in one hour?

C Houghton Mittlin Harcourt Publishing Company

17. Darcy baked 8 muffins. She put blueberries in $\frac{5}{8}$ of the muffins. She put raspberries in $\frac{3}{8}$ of the muffins. Did more muffins have blueberries or raspberries?

18. WRITE Math Explain how you can use reasoning to compare two fractions with the same denominator.

- 1. Julia paints $\frac{2}{6}$ of a wall in her room white. She paints more of the wall green than white. What fraction could show the part of the wall that is green?
- **2**. Compare. Write \langle , \rangle , or =.



Spiral Review (3.0A.A.3, 3.0A.B.5, 3.0A.C.7, 3.NBT.A.3)

- **3.** Mr. Edwards buys 2 new knobs for each of his kitchen cabinets. The kitchen has 9 cabinets. How many knobs does he buy?
- 4. Allie builds a new bookcase with 8 shelves. She can put 30 books on each shelf. How many books can the bookcase hold?

- 5. The Good Morning Café has 28 customers for breakfast. There are 4 people sitting at each table. How many tables are filled?
- 6. Ella wants to use the Commutative Property of Multiplication to help find the product 5 × 4. What number sentence can she use?







Problem Solving

C Houghton Mifflin Harcourt Publishing Company

- **10.** Javier is buying food in the lunch line. The tray of salad plates is $\frac{3}{8}$ full. The tray of fruit plates is $\frac{3}{4}$ full. Which tray is more full?
- 11. Rachel bought some buttons. Of the buttons, $\frac{2}{4}$ are yellow and $\frac{2}{8}$ are red. Rachel bought more of which color buttons?
- **12. WRITE** Math Explain how the number of pieces in a whole relates to the size of each piece.

- What symbol makes the statement true? Write <, >, or =.
- What symbol makes the statement true? Write <, >, or =.



Spiral Review (3.0A.C.7, 3.NF.A.1)

- **3.** Anita divided a circle into 6 equal parts and shaded 1 of the parts. What fraction names the part she shaded?
- **4.** What fraction names the shaded part of the rectangle?

 $\frac{2}{3}$



- 5. Chip worked at the animal shelter for 6 hours each week for several weeks. He worked for a total of 42 hours. How many weeks did Chip work at the animal shelter?
- 6. Mr. Jackson has 20 quarters. If he gives 4 quarters to each of his children, how many children does Mr. Jackson have?





Name

Compare Fractions

Compare. Write <, >, or =. Write the strategy you used.

2. $\frac{2}{3}$ $\binom{7}{8}$

1. $\frac{3}{8} < \frac{3}{4}$

Think: The numerators are the same. Compare the denominators. The greater fraction will have the lesser denominator.

same numerator

Name a fraction that is less than or greater than the given fraction. Draw to justify your answer.

4. greater than $\frac{1}{3}$ –

5. less than $\frac{3}{4}$ –

Problem Solving World

- 6. At the third-grade party, two groups each had their own pizza. The blue group ate $\frac{7}{8}$ pizza. The green group ate $\frac{2}{8}$ pizza. Which group ate more of their pizza?
- 7. Ben and Antonio both take the same bus to school. Ben's ride is $\frac{7}{8}$ mile. Antonio's ride is $\frac{3}{4}$ mile. Who has a longer bus ride?

8. **WRITE** Math Explain how to use the missing pieces strategy to compare two fractions. Include a diagram with your explanation.

Common COMMON CORE STANDARD—3.NF.A.3d Core Develop an understanding of fractions as numbers. 3. $\frac{3}{4}$

Practice and Homework Lesson 9.4

- **1.** Compare $\frac{2}{3}$ and $\frac{7}{8}$. Write \langle , \rangle , or =.
- What symbol makes the statement true? Write <, >, or =.



Spiral Review (3.0A.A.4, 3.NBT.A.3, 3.NF.A.3c)

- **3.** Cam, Stella, and Rose each picked 40 apples. They put all their apples in one crate. How many apples are in the crate?
- **4.** Each shape is 1 whole. What fraction is represented by the shaded part of the model?

 $\frac{2}{4}$ $\frac{2}{6}$

- 5. What related multiplication fact can you use to find $16 \div = 2?$
- 6. What is the unknown factor?

$$9 \times \blacksquare = 36$$





1. Write the fractions in order from least to greatest.

 $\frac{1}{8}, \frac{1}{3}, \frac{1}{6}$

2. Write the fractions in order from greatest to least.

 $\frac{3}{6}, \frac{3}{4}, \frac{3}{8}$

Spiral Review (3.OA.B.5, 3.NF.A.1, 3.MD.B.3)

3. What fraction of the group of cars is shaded?



4. Wendy has 6 pieces of fruit. Of these, 2 pieces are bananas. What fraction of Wendy's fruit is bananas?

- 5. Toby collects data and makes a bar graph about his classmates' pets. He finds that 9 classmates have dogs, 2 classmates have fish, 6 classmates have cats, and 3 classmates have gerbils. What pet will have the longest bar on the bar graph?
- 6. The number sentence is an example of which multiplication property?

$$6 \times 7 = (6 \times 5) + (6 \times 2)$$





Practice and Homework Lesson 9.6



COMMON CORE STANDARD-3.NF.A.3a Develop understanding of fractions as numbers.

Shade the model. Then divide the pieces to find the equivalent fraction.

Model Equivalent Fractions



Name



Problem Solving World

3. Mike says that $\frac{3}{3}$ of his fraction model is shaded blue. Ryan says that $\frac{6}{6}$ of the same model is shaded blue. Are the two fractions equivalent? If so, what is another equivalent fraction?

Use the number line to find the equivalent fraction.



4. Brett shaded $\frac{4}{8}$ of a sheet of notebook paper. Aisha says he shaded $\frac{1}{2}$ of the paper. Are the two fractions equivalent? If so, what is another equivalent fraction?

5. WRITE Math Draw a number line that shows two equivalent fractions. Label your number line and explain how you know the fractions are equivalent.

1. Name a fraction equivalent to $\frac{2}{3}$.



2. Find the fraction equivalent to $\frac{1}{4}$.



Spiral Review (3.0A.A.3, 3.0A.C.7, 3.NF.A.1)

- 3. Eric practiced piano and guitar for a total of 8 hours this week. He practiced the piano for $\frac{1}{4}$ of that time. How many hours did Eric practice the piano this week?
- 4. Kylee bought a pack of 12 cookies. One-third of the cookies are peanut butter. How many of the cookies in the pack are peanut butter?

- 5. There are 56 students going to the game. The coach puts 7 students in each van. How many vans are needed to take the students to the game?
- **6**. Write a division equation for the picture.





C Houghton Mittlin Harcourt Publishing Company



Name .

Equivalent Fractions



Common Core COMMON CORE STANDARD—3.NF.A.3b Develop understanding of fractions as numbers.

Each shape is 1 whole. Shade the model to find the equivalent fraction.



4.

Circle equal groups to find the equivalent fraction.

Ø 8			
	the second second second second second		
	Carl Court and and an and an and	1	
			- 1
		1	

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





Problem Solving

2

- 5. May painted 4 out of 8 equal parts of a poster board blue. Jared painted 2 out of 4 equal parts of a same-size poster board red. Write fractions to show which part of the poster board each person painted.
- Houghton Mifflin Harcourt Publishing Company
 - 6. **WRITE** Math Explain how you can find a fraction that is equivalent to $\frac{1}{4}$.

1. What fraction is equivalent to $\frac{6}{8}$?



2. What fraction is equivalent to $\frac{1}{3}$?



Spiral Review (3.0A.B.5, 3.0A.B.6, 3.0A.C.7)

3. What division number sentence is shown by the array?



4. Cody put 4 plates on the table. He put 1 apple on each plate. What number sentence can be used to find the total number of apples on the table?

- 5. Write a division number sentence that is a related fact to $7 \times 3 = 21$.
- 6. Find the quotient.

4)36

