



Chapter 17: Understand Fractions as Numbers



Dear Families,

Over the next few weeks, our math class will be learning about fractions!

Students will practice identifying, reading, and writing fractions as parts of a whole and as parts of a set.

You can expect to see homework that provides extra practice with these concepts. Encouraging your child to discuss what they're learning and apply fractions in real-life situations can help reinforce their understanding.

Vocabulary

Fraction: A number that names part of a whole or part of a group.

Numerator: The part of a fraction above the line that tells how many equal parts are being counted.

Denominator: The part of a fraction below the line that tells how many equal parts are in the whole or in the group.

Unit fraction: A fraction that names 1 equal part of a whole. It has 1 as its top number, or numerator.

Fraction greater than 1: A number which has a numerator that is greater than its denominator.

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- Our class will also complete the STEM project (Building Bridges) during this week.
 - Homework due date: **Sunday, March 30th**
 - Feel free to contact me with any questions at diana.charaf@archimedean.org
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Complete homework daily based on the schedule provided below:

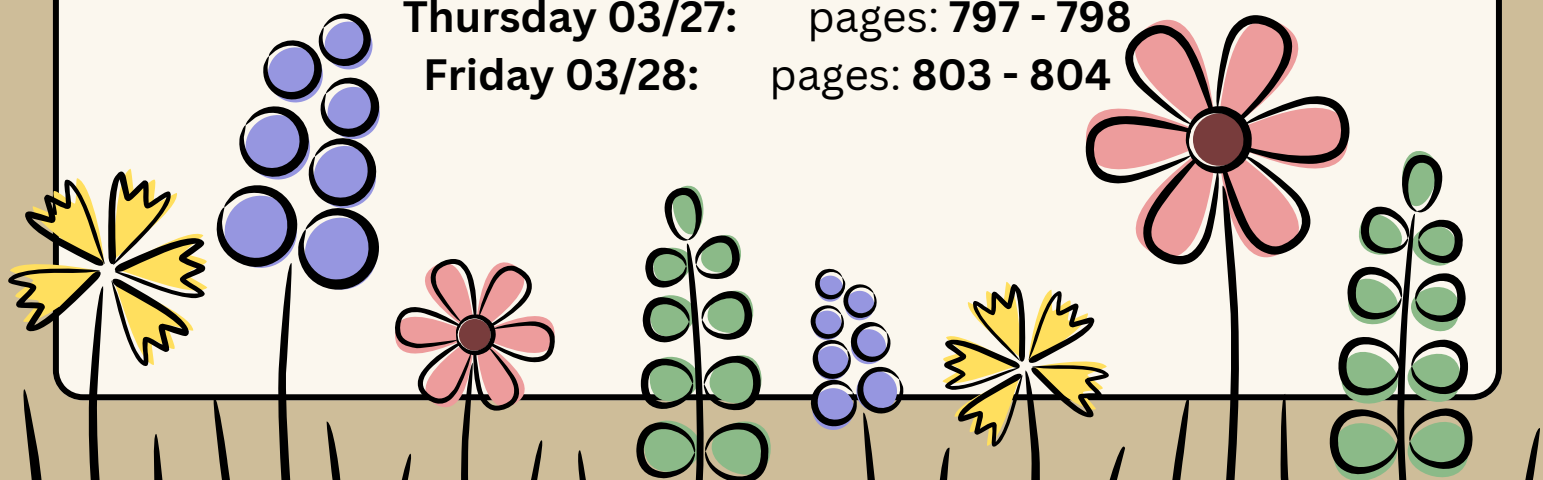
Monday 03/24: pages: 779 - 780

Tuesday 03/25: pages: 785 - 786

Wednesday 03/26: pages: 791 - 792

Thursday 03/27: pages: 797 - 798

Friday 03/28: pages: 803 - 804



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Interactive Examples

1.

**fourths**

2.



3.



4.



6. Madison is making a place mat. She divides it into 6 equal parts to color. What is the name for the parts?

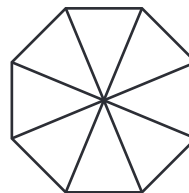
WRITE *Math*

Lesson Check

8. How many equal parts are in this shape?



9. What is the name for the equal parts of the whole?



Spiral Review

10. Use a related multiplication fact to find the quotient.

$$49 \div 7 =$$

11. Find the unknown factor and quotient.

$$9 \times \square = 45$$

$$45 \div 9 = \square$$

12. There are 5 pairs of socks in one package. Matt buys 3 packages of socks. How many pairs of socks does Matt buy?

13. Mrs. McCarr buys 9 packages of markers for an art project. Each package has 10 markers. How many markers does Mrs. McCarr buy?

Represent and Name Unit Fractions

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Interactive Examples

Write the number of equal parts in the whole.
Then write the fraction that names the shaded part.



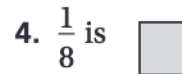
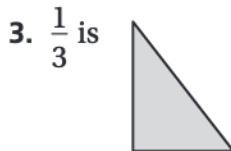
_____ $\frac{6}{6}$ equal parts

_____ $\frac{1}{6}$



_____ equal parts


Draw a picture of the whole.



Problem Solving

5. Tyler made a pan of cornbread. He cut it into 10 equal pieces and ate 1 piece. What fraction of the cornbread did Tyler eat?

6. Anya cut an apple into 4 equal pieces. She gave 1 piece to her sister. What fraction of the apple did Anya give to her sister?

7.  **WRITE** *Math* Draw a picture to show what 1 out of 3 equal parts looks like. Then write the fraction.

Lesson Check

8. What fraction names the shaded part? Write your answer in standard form, word form, and numeral-word form.
9. Tasha cut a fruit bar into 5 equal parts. She ate 1 part. What fraction of the fruit bar did Tasha eat? Write your answer in standard form, word form, and numeral-word form.



Spiral Review

10. Alex has 5 lizards. He divides them equally among 5 cages. How many lizards does Alex put in each cage?
11. Find the product.
- $$8 \times 1 = \square$$
12. Leo bought 6 chew toys for his new puppy. Each chew toy cost \$4. How much did Leo spend for the chew toys?
13. Lilly is making a pictograph. Each picture of a star is equal to two books she has read. The row for the month of December has 3 stars. How many books did Lilly read during the month of December?

Represent and Name Fractions of a Whole

Write the fraction that names each part. Write a fraction in words and in numbers to name the shaded part.

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Interactive Examples

1.

Each part is $\frac{1}{6}$.

three sixths

$\frac{3}{6}$

2.



Each part is _____.

_____ eighths

Shade the fraction circle to model the fraction. Then write the fraction in numbers.

3. four out of six




4. eight out of eight



Problem Solving

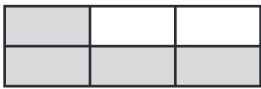
5. Eshe makes a poster for the school's spring concert. She divides the poster into 8 equal parts. She uses two of the parts for the title. What fraction of the poster does Eshe use for the title?

6. Loki makes a flag. It has 12 equal parts. Five of the parts are red. What fraction of the flag is red?

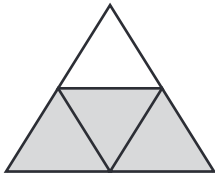
7.  **WRITE** *Math* Draw a rectangle and divide it into 4 equal parts. Shade 3 parts. Then write the fraction that names the shaded part.

Lesson Check

8. What fraction names the shaded part?



9. What fraction names the shaded part?



Spiral Review

10. Sarah biked for 115 minutes last week. Jennie biked for 89 minutes last week. How many minutes did the girls bike?

11. Harrison made a building using 124 blocks. Greyson made a building using 78 blocks. How many more blocks did Harrison use than Greyson?

12. Von buys a bag of 24 dog treats. He gives his puppy 3 treats a day. How many days will the bag of dog treats last?

13. How many students chose swimming?

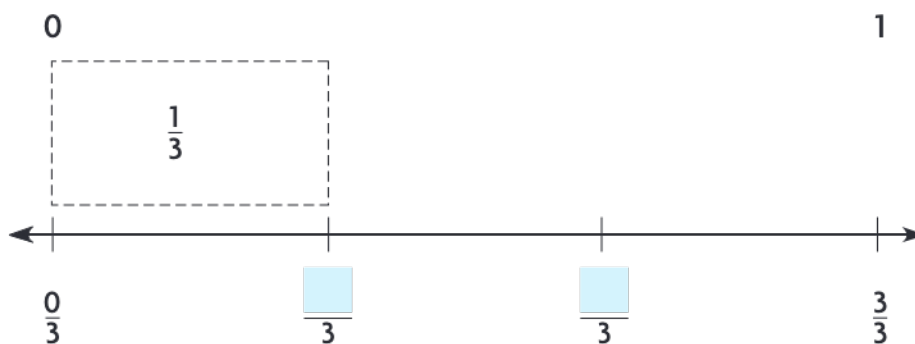
Favorite Activity	
Skating	☺ ☺
Swimming	☺ ☺ ☺ ☺ ☺
Biking	☺ ☺ ☺ ☺
Key: Each ☺ = 5 votes.	

Represent and Name Fractions on a Number Line

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Interactive Examples

1. Use fraction strips to help you complete the number line. Then locate and draw a point for the fraction. $\frac{2}{3}$



Write the fraction that names the point.




2. point A _____

3. point B _____

4. point C _____

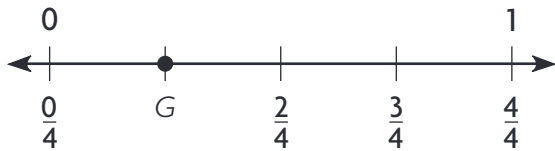
Problem Solving

5. Jade ran 10 times around her neighborhood to complete a total of 1 mile. How many times will she need to run to complete $\frac{9}{10}$ of a mile?
6. A missing fraction on a number line is located exactly halfway between $\frac{3}{6}$ and $\frac{5}{6}$. What is the missing fraction?

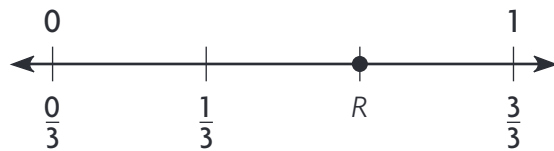
7.  *Math* Explain how showing fractions with models and a number line are alike and different.

Lesson Check

8. What fraction names point G on the number line?



9. What fraction names point R on the number line?



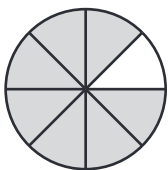
Spiral Review

10. Each table in the cafeteria can seat 10 students. How many tables are needed to seat 40 students?

11. Use the Commutative Property of Multiplication to write a related equation.

$$4 \times 9 = 36$$

12. Pedro shaded part of a circle. What fraction names the shaded part?



13. Find the quotient.

$$8 \div 1 = \boxed{}$$

Write Fractions as Sums of Unit Fractions

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Interactive Examples

Write the fraction as a sum of unit fractions.

1. $\frac{4}{6}$

2. $\frac{5}{8}$

3. $\frac{2}{3}$

4. $\frac{6}{6}$

Write the fraction represented by the sum of unit fractions.

5. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

6. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

Problem Solving

7. Noor uses $\frac{1}{4}$ stick of butter to make breakfast for the family. That means that there is $\frac{3}{4}$ stick of butter left. How can you write $\frac{3}{4}$ as the sum of unit fractions?

8. Talia cuts one melon into 8 equal pieces. Write the number 1 as a sum of unit fractions that name each piece of melon.

Lesson Check

Fill in the bubble completely to show your answer.

9. What is $\frac{5}{6}$ written as the sum of unit fractions?

(A) $\frac{5}{6} + \frac{5}{6} + \frac{5}{6} + \frac{5}{6} + \frac{5}{6}$

(B) $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

(C) $\frac{1}{6}$

(D) $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$
10. Ross walks $\frac{3}{8}$ mile to school. What is $\frac{3}{8}$ written as the sum of unit fractions?

(A) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

(B) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

(C) $\frac{1}{8}$

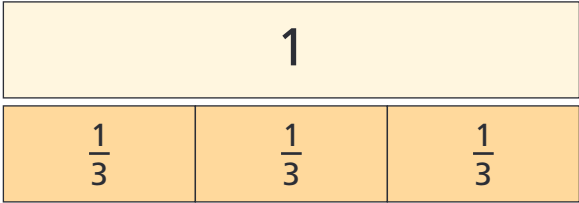
(D) $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$
11. What fraction is represented by the sum $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$?

(A) $\frac{0}{3}$

(B) $\frac{3}{3}$

(C) $\frac{1}{3}$

(D) $\frac{2}{3}$



Spiral Review

12. Jamal sliced an orange into four equal pieces. He ate one slice. What fraction of the orange did Jamal eat?
13. A bookshelf is divided into 6 equal cubbies. Each cubby has 12 books. How many books are on the bookshelf?