

Student Guide

Workshop: Many Ways to Show a Fraction

Questions 1–14 (SG pp. 332–333)

1. The circle is divided into 4 equal parts and John shaded one of the parts.
2. The denominator tells you the total number of pieces is four and the numerator says you are talking about 1 of those pieces.
3. The unit whole is the whole circle.
4. 2 blue pieces (eighths) or 3 black pieces (twelfths)
5. The strip is divided into 4 equal parts and 1 of the parts is shaded.
6. The unit whole is the whole strip.
7. The space between 0 and 1 is divided into 4 equal parts. The number  $\frac{1}{4}$  is written at the first of the 4 parts.
8. The unit whole starts at 0 and ends at 1.
9. Yes, if the whole pan were divided into 4 equal parts, each of the parts would have 3 pieces.
10. The unit whole is the whole pan, 12 pieces.
11. 6 pieces; 9 pieces
12.  $\frac{3}{12}$
13.  $\frac{2}{12}$  or  $\frac{1}{6}$
14.  $\frac{1}{12}$ ; the denominator is the total number of pieces (12); Jessie ate 1, so the numerator is 1.

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Mrs. Dewey's class played Show That Fraction. They showed  $\frac{1}{4}$  in five different ways on the board: number, words, drawing, fraction strip, and number line.

**Discuss**

Maya wrote  $\frac{1}{4}$  as a number and in words.

John said, "one-fourth is like the yellow fraction circle piece," and he drew the picture on the board.

1. How does John's drawing show  $\frac{1}{4}$ ?
2. What do the denominator and the numerator tell you?
3. What is the unit whole?
4. What other fraction circle pieces could John use to show  $\frac{1}{4}$ ? How many would he use of each piece that you name?

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332 SG • Grade 4 • Unit 8 • Lesson 7 Workshop: Many Ways to Show a Fraction

Student Guide - Page 332

Jackie used a fraction strip. "This shows  $\frac{1}{4}$ !" Then, she shaded in  $\frac{1}{4}$  of a fraction strip on the board.

5. How does Jackie's strip show  $\frac{1}{4}$ ?
6. What is the unit whole?

Jerome said, "Don't forget the number line." He put a point at  $\frac{1}{4}$  on the number line on the board.

7. How does Jerome's number line show  $\frac{1}{4}$ ?
8. Point to the beginning and the end of the unit whole on the number line.

Jessie raised her hand and said, "I think I know another way. Last night my dad made a pan of lasagna. He cut the lasagna into 12 pieces. Then my dad was so hungry that he ate 3 pieces. I think he ate  $\frac{1}{4}$  of the pan."

"Can you show us why you think he ate  $\frac{1}{4}$ , Jessie?" asked Mrs. Dewey. Jessie drew a rectangle and divided it into 12 equal pieces. She shaded in 3 pieces.

9. Did Jessie's dad eat  $\frac{1}{4}$  of the pan of lasagna? How do you know?
10. What is the unit whole? How many lasagna pieces are in the unit whole?
11. How many lasagna pieces is  $\frac{3}{4}$ ? How many lasagna pieces is  $\frac{5}{4}$ ?
12. What other fraction can you write for the amount that Jessie's dad ate?
13. Jessie's brother, Mark, ate 2 pieces. What fraction of the whole pan did Mark eat?
14. Jessie ate 1 piece. What fraction of the lasagna did she eat? How did you decide on the numerator and denominator?

Use the Self-Check Questions and Menus on the *Showing Fractions* pages of the *Student Activity Book* to choose problems to practice showing fractions.

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Workshop: Many Ways to Show a Fraction SG • Grade 4 • Unit 8 • Lesson 7 333

Student Guide - Page 333