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Many Ways to Show a Decimal

Kid Decimals

Mrs. Dewey's class is playing Kid Decimals. These ten students are at the front of the class.



Mrs. Dewey wrote 0.4 on the board to represent part of this group.

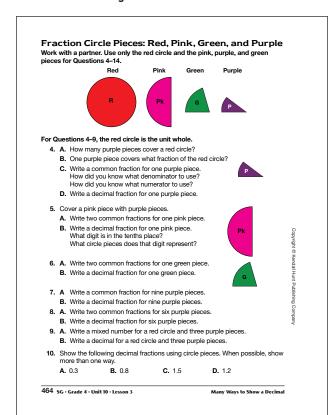
- 1. A. Does 0.4 represent the fraction of students who are wearing glasses? Why or why not?
 - B. What place would the 4 go in a place value chart?
- Name another part of this group that can be represented by 0.4.
 What common fraction can you use to represent 0.4? What does the denominator represent? What does the numerator represent?
- Work with a partner. Draw the table below. Fill in the table with three fractions that fit some part of the group. Use your table to play Kid Decimals with another pair of students.

	Number of Students in the Whole Group	Number of Students in Part of the Group	Decimal Fraction in Words	Decimal Fraction	Common Fraction
Ex.	10	4	four-tenths	0.4	<u>4</u>
A.	10				
B.	10				
C.	10				

Many Ways to Show a Decimal

SG · Grade 4 · Unit 10 · Lesson 3 463

Student Guide - Page 463



Student Guide - Page 464

Student Guide

Many Ways to Show a Decimal

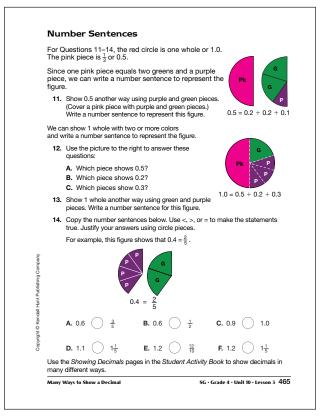
Questions 1-14 (SG pp. 463-465)

- **I. A.** Yes, four out of the ten students total are wearing glasses.
 - **B.** The tenths place
- **2. A.** 0.4 can also represent the number of boys in the group. There are four boys out of a total of ten students.
 - **B.** $\frac{4}{10}$; The denominator represents the total number of students, the numerator represents the number of students with glasses, or the number of boys.
- **3.** Tables and fractions will vary.
- **4. A.** 10 purple pieces
 - **B.** $\frac{1}{10}$ or 0.1
 - C. $\frac{1}{10}$; The denominator represents the number of purple pieces needed to make a whole; the numerator represents one piece.
 - **D.** 0.1
- **5. A.** $\frac{1}{2}$, $\frac{5}{10}$
 - **B.** 0.5; 5; it represents five purple pieces
- **6. A.** $\frac{1}{5}$, $\frac{2}{10}$
 - **B.** 0.2
- 7. A. $\frac{9}{10}$
 - **B.** 0.9
- **8. A.** $\frac{6}{10}$, $\frac{3}{5}$
 - **B.** 0.6
- **9. A.** $1\frac{3}{10}$
 - **B.** 1.3
- **10.** Responses will vary. Two possible responses are shown for each.
 - **A.** three purple pieces or one green piece and one purple piece
 - **B.** eight purple pieces or four green pieces
 - **C.** one red piece and one pink piece or 15 purple pieces
 - **D.** one red piece and two purple pieces or 6 green pieces or twelve purple pieces

- green; 0.3 + 0.2 = 0.5. See Figure 3.
- **12. A.** pink
 - B. green
 - C. 3 purples
- 13. Possible response: three greens and four purples; 0.6 + 0.4 = 1.0

11.* Possible response: three purples and one

- 14. A. =
 - **B.** >
 - $C_{\cdot} <$
 - **D.** <
 - E. =
 - F. =



Student Guide - Page 465

Student Activity Book

Showing Decimals

Questions 1-21 (SAB pp. 409-418)

and

Homework

Questions 1-10 (SAB pp. 419-420)

Answers are shown in minis on following pages.

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