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

١.

Many Ways to Show Decimals (SG pp. 368–374) Questions 1–12

Color	Common Fraction	Decimal Fraction	Number in Words
blue	$\frac{30}{100}$.30	thirty hundredths
gree	$\frac{12}{100}$.12	twelve hundredths
yellow	$\frac{32}{100}$.32	thirty-two hundredths
red	$\frac{20}{100}$.20	twenty hundredths
orange	$\frac{6}{100}$.60	sixty hundredths

- **2.*** All three answers are correct because they all represent the part of the grid that is shaded. There are 100 small boxes and 84 are shaded, so that is $\frac{84}{100}$. In the decimal notation, it shows that the whole is divided into pieces that are $\frac{1}{10}$ the size of the whole. Nila's group saw the 8 rows that are each $\frac{1}{10}$ of the whole and 4 boxes that are each $\frac{1}{100}$ of the whole. Nila's group is using expanded form.
- **3. A.** 10
 - **B.** 100
 - **C.** 1000

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TG • Grade 5 • Unit 8 • Lesson 3 • Answer Key

- **4. A.*** 3 full rows are shaded or 0.3 or three tenths of the grid is shaded.
 - **B.*** 30 squares; 0.30 or thirty hundredths of the grid is shaded.
 - **C.*** 300 tiny rectangles or 0.300 or three hundred thousandths of the grid is shaded.
 - **D.*** five squares are shaded; 0.05 or five hundredths of the grid is shaded.
 - **E.*** 7 more tiny rectangles; .007 or seven thousandths of the grid is shaded.
 - F.* .3 + .05 + .007 = 0.357
- 5. A.* Between .35 and .36
 - **B.*** Point A represents 0.357.
- 6. A.* 0.083 or eighty-three thousandths
 - B.* Point B represents 0.083
- **7. A.** Grid A: 0.642; .6 + .04 + .002 = .642 Grid B: 0.649; .6 + .04 + .009 = .649
 - **B.** Grid A: six hundred forty-two thousandths Grid B: six hundred forty-nine thousandths
 - **C.*** Both Points A represent 0.642.

Both Points B represent 0.649.







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



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- **F.*** If you line the numbers up on the place value chart from largest to smallest, you can see that each time the 4 moves a place to the right it is $\frac{1}{10}$ the value it was in the place to the left. If you move from the smallest number to the largest number, each time you move the 4 a place to the left it gets 10 times larger.
- **9. A.** Possible response: Both the place value chart and expanded form break the number apart using the place value of each number. Irma uses models to show the value of each digit and Luis uses symbols. Irma arranged the base-ten shorthand on a chart and Luis put the digits into a number sentence.
 - **B.** 8.519
- **IO. A.** 5.905= 5 + .9 + .005
 - **B.** 7.009 = 7 + .009
 - **C.** 3.664 = 3 + .6 + .06 + .004
 - **D.** 2.222 = 2 + .2 + .02 + .002
 - **E.** 23.528 = 23 + .5 + .02 + .008
 - **F.** 6 + .1 + .06 + .004
 - G. three and six hundred sixty four thousandths

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- **II. A.** 34.308
 - **B.** 742.091
 - **C.** 16.945
 - **D.** 500.043
 - **E.** 249.613
 - **F.** five hundred and forty-three thousandths

12.



E. Possible response: In the number 613.3 the six is worth 6×100 or 600. In the number 61.83 the six is worth 6×10 or 60. That means that when the six moved one place to the right from the hundreds place to the tens place it is worth $\frac{1}{10}$ as much.



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bet	e Grace's strategy to locate $\frac{47}{100}$ on the number line tween which tenths the decimal is located. Label th	. First decide e end points of the
sho	by the location of the decimal.	e number line to
←	 	· · · · · · · · · · · · · · · · · · ·
D. Nar frac	me the fraction of the grid that is not shaded. Write ction.	a decimal
3. A. Sha	ade sixtv-eiaht hundredths of the arid.	
	B. Write sixty-eight	hundredths as a
-		Copy
	sixty-eight hundr	redths.
		Kendall
	cate sixty-eight hundredths on the number line	Hunt Pe
D. 200	sate sixty eight hundreaths on the humber line.	blishing
د ا		
	me the frequence of the grid that is not shaded Write	a desired fraction
E. Nai and	d a number sentence in expanded form.	a decimal fraction

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Decimal Grids: Hundredths (SAB pp. 299–300) Questions 1–3









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Show Decimals (SAB pp. 301–304) Questions 1–7



Na **Show Decimals** Complete the missing information to show the decimal in each box in many ways. The first one is done as an example. Use the *Writing Numbers in Words* page in the *Student Guide* Reference section. Example 47 100 .47 decimal fraction forty-seven hundredths words .4 + .07 = .47 expanded form .5 .47 1. $\frac{47}{1000}$ decimal fraction words expanded form 1 SAB · Grade 5 · Unit 8 · Lesson 3 301 Many Ways to Show Decimals

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Represent Decimals (SAB pp. 305–308) Homework Questions 1–7





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