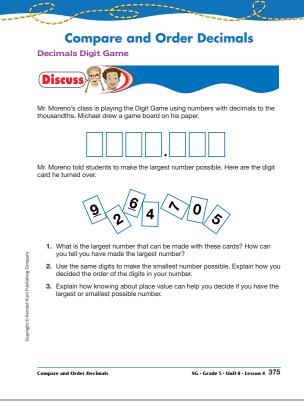
Answer Key • Lesson 4: Compare and Order Decimals

Student Guide

Compare and Order Decimals (SG pp. 375–378) Questions 1–12

- I.* 9765.420; Possible response: I put the 9 in the thousands place because it was the largest digit. Then I placed the 7 in the hundreds place because it was the next largest digit. I continued to place the digits in each place from left to right in order from the largest digit to the smallest digit.
- 2.* If the zero is allowed in the thousands place the number will be 0245.679. If the zero is not allowed in the thousands place the number will be 2045.679; Possible response: I started with the smallest digit in the largest place (the thousands) then I continued to place the numbers from smallest to largest as I moved each place to the right.
- **3.*** Possible response: If you know about place value you can tell the value of each digit in a number. This helps you know if a digit represents a large number or a small number.
- **4. A.***The numbers close to zero have a zero in the tenths place and a very low number (less than 5) in the hundredths place.
 - **B.***The numbers close to 0.1 have a zero or a 1 or 2 in the tenths place.
 - **C.***The numbers close to 0.5 have a number close to or equal to 5 in the tenths place.
 - **D.***The numbers close to 1.0 have a 1 in the ones place or they have a very high number like a 7, 8 or 9 in the tenths place.
 - **E.***The numbers greater than 1 have digits larger than 1 in the ones place. Some of them are also double digit numbers.

Decimals Near or Equal to 0	Decimals Near or Equal to 0.1	Decimals Near or Equal to 0.5	Decimals Near or Equal to 1	Decimals Much Greater Than 1
0.0	0.085	0.452	0.819	4
0.003	0.09	.491	.89	4.005
0.007	0.10	0.500, 0.50	0.9	6.03
0.009	0.101	0.6	0.981	7.9
.01	0.11	0.602	1.0	23.56
0.011	0.2	0.61	1.03	30.4
			1.075	





	7819/				
he table belo nchmarks ar	w 0, 0.1, 0.5, and e convenient nur	d 1 are used as b nbers for compa	enchmarks to sering and orderin	ort decimals. g numbers.	
	De	cimals Sorting Ta	able		
Decimals Near or Equal to 0	Decimals Near or Equal to 0.1	Decimals Near or Equal to 0.5	Decimals Near or Equal to 1	Decimals Much Greater Than 1	
0.0	0.09	0.500	0.9	4	
0.009	0.10	.491	1.0	6.03	
.01 0.003	.085	0.6	.89 1.03	30.4 7.9	
 E. How can you tell if a decimal is much greater than 1? 5. A. Use the <i>Decimals Sorting Table</i> in the <i>Student Activity Book</i> to so decimals. You may use the decimal grids or the hundredths circle to model the decimals. 					
0.61	0.007 0.	101 4.005	0.981 (0.50	t Publ
	urns with your pa each number on		n how you decid	ed where to	is hing Con
6. Add these	decimals to the	Decimals Sortin	g Table.		lpany
A. 0.819	E	3. 0.11	C. 0.011		
D. 1.075	E	. 0.452	F. 23.56		

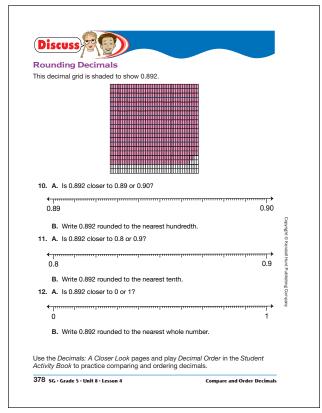
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*Answers and/or discussion are included in the lesson.

5-6.*

		from smallest to largest.			
A. 0.452 1.000 0.008	B. 0.92 0.005 625	C. 1.125 0.009 0.47			
0.89	3	0.100			
8. Shannon put these four	r numbers in order from	smallest to largest:			
Shannon	Smallest 0.004 0.014 .044	Largest 0.48			
Shannon Show or tell how Shannon knows that .048 is less than 0.48.					
 Use <, >, or = to write a true number sentence using each pair of dec You may use your table, benchmarks, decimal grids, or the hundredth circle wheel to solve each problem. 					
A. 0.7 0.700	B. 0.032 0.302	C. 0.530 0.503			
D. 0.072 0.107	E. 00.23 0.234	F. 00.48 .048			
G. Show or tell how yo	u decided if this is a tru	e number sentence.			
	.006 < 0.016 < .106				
	0.008 0.89 8. Shannon put these four vert of the second se	 0.008 6225 0.89 3 8. Shannon put these four numbers in order from form form for the second sec			

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

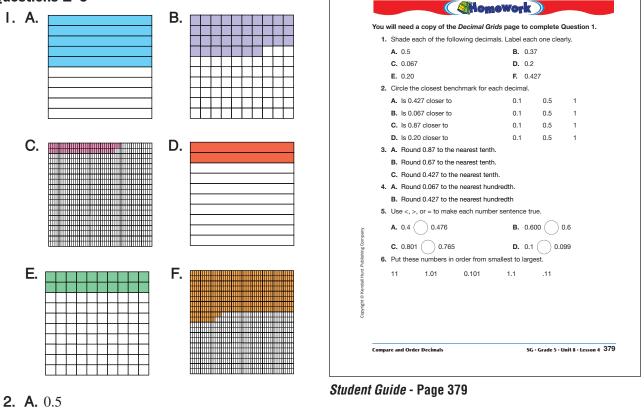
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- **7. A.** 0.008, 0.452, 0.89, 1.000
 - **B.** 0.005, .625, 0.92, 3
 - **C.** 0.009, 0.100, 0.47, 1.125
- **8.** 0.048 is equal to $\frac{48}{1000}$ and that is between 0 and 0.1 but 0.48 is $\frac{48}{100}$ which is close to .5. Since 0.1 is less than 0.5, 0.048 is less than 0.5.
- **9. A.** =
 - **B.** <
 - **C.** >
 - **D.** <
 - **E.** <
 - **F.** >
 - **G.** Yes, this is true. I thought about fractions. $.006 \text{ is } \frac{6}{1000}$, 016 is $\frac{16}{1000}$, and .106 is $\frac{106}{1000}$.
- **IO. A.*** 0.89
 - **B.*** 0.89
- **II. A.*** 0.9
 - **B.*** 0.9
- **12. A.*** 1
 - **B.*** 1

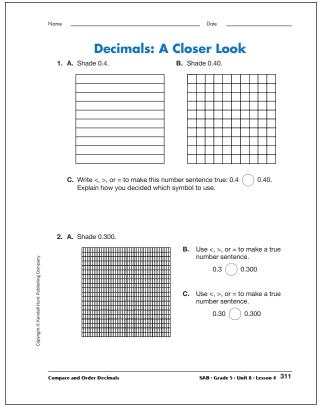
2 TG · Grade 5 · Unit 8 · Lesson 4 · Answer Key

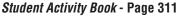
Answer Key • Lesson 4: Compare and Order Decimals

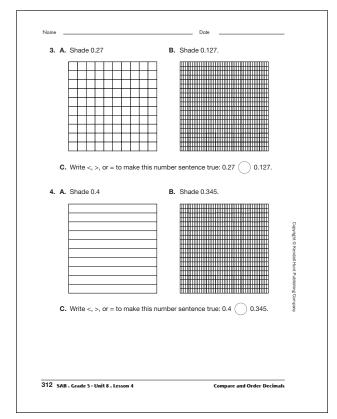
Homework (SG p. 379) Questions 1–6



- **B.** 0.1
 - **C.** 1
 - **D.** 0.1
- **3. A.** 0.9
 - **B.** 0.7
- **C.** 0.4
- **4. A.** 0.07
- **B.** 0.43
- 5. A. <
- **B.** =
- **C.** >
- **D.** >
- **6.** 0.101, .11, 1.01, 1.1, 11



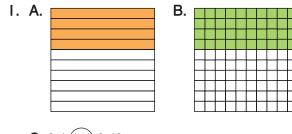


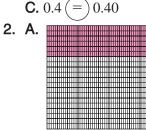


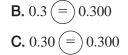
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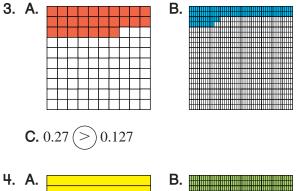
Student Activity Book

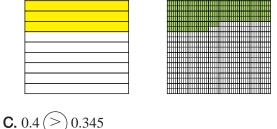
Decimals: A Closer Look (SAB pp. 311–316) Questions 1–11





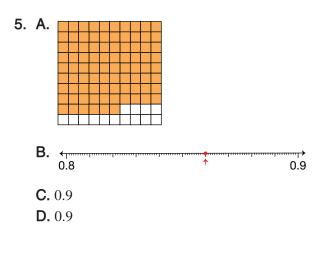






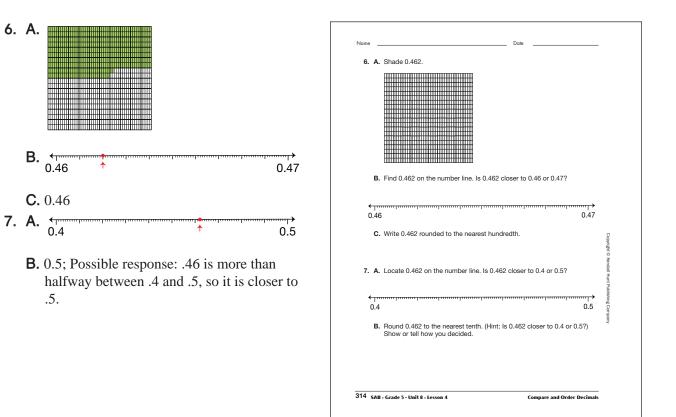
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Answer Key • Lesson 4: Compare and Order Decimals



	Name Date					
	5. A. Shade 0.86					
	B. Place a dot to show 0.86 on the number line.					
	0.8 0.9					
	C. Is 0.86 closer to 0.8 or 0.9?					
Copyright © Kendall Hunt Publishing Company	D. What is 0.86 rounded to the nearest tenth?					
	Compare and Order Decimals SAB - Grade 5 - Unit 8 - Lesson 4 313					

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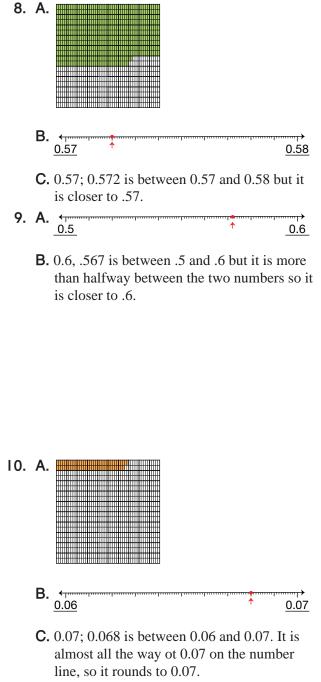
6. A.

Name	Dote
0.	
	B. Label the endpoint of the number line to show between which two hundredths .572 is located. Show where .572 is on the number line.
	C. Write .572 rounded to the nearest hundredth. How do you know?
ing Company	A. Label the endpoint of the number line to show between which two tenth .572 is located. Show where .572 is on the number line.
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Copyright © Ke	B. What is .572 rounded to the nearest tenth? How did you decide?
Comp	are and Order Decimals SAB • Grade 5 • Unit 8 • Lesson 4 31

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Name	9 Date
10.	A. Shade 0.068.
	B. Label the endpoints of the number line to show between which two hundredths .068 is located. Show where .068 is on the number line.
•	\leftarrow
-	C. Write .068 rounded to the nearest hundredth. How do you know?
11.	 C. Write .068 rounded to the nearest hundredth. How do you know? A. Label the endpoints of the number line to show between which two tenths .068 is located. Show the location of .068 on the number line.
•	+homorhoondaanaalaanaalaanaalaanaalaanaalaanaalaanaalaa
_	B. What is .068 rounded to the nearest tenth? How did you decide?
	SAB - Grade S - Unit 8 - Lesson 4 Compare and Order Decimals







B. 0.1; .068 is between 0 and .1 but closer to .1.

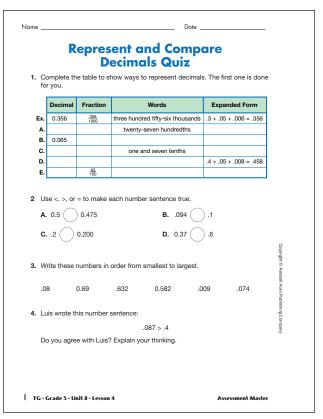
Teacher Guide

Ι.

Represent and Compare Decimals Quiz (TG pp. 1–2) Questions 1–7

	Decimal Fraction		Words	Expanded Form		
Ex.	0.356 356 1000		three hundred fifty-six thousands	.3 + .05 + .006 = .356		
Α.	0.27	$\frac{27}{100}$	twenty-seven hundredths	.2 + .07 = .27		
В.	0.065	$\frac{65}{1000}$	sixty-five thousandths	.06 + .005 = .065		
C.	1.7	$1\frac{7}{10}$	one and seven tenths	1 + .7 = 1.7		
D.	.458	$\frac{458}{1000}$	four hundred fifty-eight thousandths	.4 + .05 + .008 = .458		
E.	.63	63 100	sixty-three hundredths	.6 + .03 = .63		

- **2.** A. $0.5 \ge 0.475$ B. $.094 \le$ C. .2 = 0.200 C. $0.37 \le$
- **3.** .009, .074, .08, 0.582, 0.632, 0.69
- **4.** No, 0.087 is between eight hundredths and 9 hundredths. You need 10 hundreds to equal one tenth. That means both of these numbers are less than one tenth, so they have to be less than four tenths.
- **5. A.** 30
 - **B.** 1
 - **C.** 12
 - **D.** 33
 - **E.** I thought about a number line. .923 will be between 0 and 1. It will be almost all the way to 1 on the number line.
- **6. A.** 29.8
 - **B.** .9
 - **C.** 12.0
 - **D.** 32.6
 - **E.** This number is rounded to 12 and zero tenths because .001 is only one thousandths.
- **7. A.** 2.98
 - **B.** .92
 - **C.** 12.01
 - **D.** 16.10
 - **E.** .097 is between nine hundredths and ten hundreds. It is closer to ten hundredths on the number line so the number rounds to 16.10.





	Name	Date
	Use what you know about p complete Questions 5-7.	lace value and the decimal number lines to
	5. Round each decimal to	the nearest whole number.
	A. 29.84	B. .923
	C. 12.001	D. 32.632
	E. Show or tell how you	u solved Question 5B.
	، استنبابا استنباع	······
	6. Round each decimal to	the nearest tenth.
	A. 29.84	B. .923
	C. 12.001	D. 32.632
	E. Show or tell how you	u solved Question 6C.
		·······
	7. Round each decimal to	the nearest hundredth.
any	A. 2.984	B. .916
Compe	C. 12.009	D. 16.097
Copyright © Kendall Hunt Publishing Company	E. Show or tell how you	u solved Question 7D.
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