

Student Activity Book

Using a Hundredths Chart (SAB pp. 421–423)

Questions 1–8

1. A. 0.1
 B. 0.1 means one-tenth or 1 skinny. Since 1 skinny is equal to 10 bits, one-tenth is equal to ten-hundredths ($0.1 = 0.10$). Note that in the decimal 0.10, the one means there is one-tenth and the second zero means there are no hundredths.
 C. 0.21
 D. 0.19
 E. 1.00 or 1.
- 2.* See the Sample Dialog in the lesson.
3. A. 0.76
 B. 0.74
 C. 0.85
 D. 0.65
4. A. 0.51 B. 0.49
 C. 0.6 D. 0.4
5. A. 0.26 B. 0.24
 C. 0.35 D. 0.15
6. A. 0.06 B. 0.04
 C. 0.15
7. A. 0.30 B. 0.28
 C. 0.39 D. 0.19
8. A. 0.71 B. 0.69
 C. 0.8 D. 0.6

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Name _____ Date _____

Using a Hundredths Chart

Professor Peabody made a Hundredths Chart. He forgot to fill in some of the chart. Help Professor Peabody by filling in the missing values.

0.01	0.02			0.06			0.1
	0.12		0.15		0.18		
0.21		0.24		0.27			
0.31	0.33		0.36				0.4
			0.45		0.48		
	0.52						
0.61			0.65			0.69	0.7
		0.73		0.76		0.79	
0.81					0.88		0.9
0.91		0.93			0.97		1

Use your completed chart to answer Questions 1–4.

1. A. What number on the chart comes just after 0.09? _____
 B. Why is it recorded as 0.1? What do the digits mean?

 C. What number comes just after 0.2 on the chart? _____
 D. What number comes just before 0.2? _____
 E. What number comes after 0.99? _____
2. Describe any patterns that you see in the Hundredths Chart you completed. Write your answers on the back of this page.

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3. A. Find 0.01 more than 0.75. Where is it on the chart?
 B. Find 0.01 less than 0.75. Where is it on the chart?
 C. Find 0.1 more than 0.75. Where is it on the chart?
 D. Find 0.1 less than 0.75. Where is it on the chart?
4. A. 0.01 more than 0.5 is _____ B. 0.01 less than 0.5 is _____
 C. 0.1 more than 0.5 is _____ D. 0.1 less than 0.5 is _____

Use the Hundredths Chart or skinnies and bits to complete Questions 5–8.

5. A. $0.25 + 0.01 =$ _____ B. $0.25 - 0.01 =$ _____
 C. $0.25 + 0.1 =$ _____ D. $0.25 - 0.1 =$ _____
6. A. $0.05 + 0.01 =$ _____ B. $0.05 - 0.01 =$ _____
 C. $0.05 + 0.1 =$ _____
7. A. $0.29 + 0.01 =$ _____ B. $0.29 - 0.01 =$ _____
 C. $0.29 + 0.1 =$ _____ D. $0.29 - 0.1 =$ _____
8. A. $0.7 + 0.01 =$ _____ B. $0.7 - 0.01 =$ _____
 C. $0.7 + 0.1 =$ _____ D. $0.7 - 0.1 =$ _____

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

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Many Ways to Show Hundredths

1. Complete the place value chart. Use decimals in the number sentences.

Number	Place Value				Number Sentence
	Tens	Ones	Tenths	Hundredths	
A. 24.37			.		$20 + 4 + .3 + .07 = 24.37$
B. 13.09			.		
C. 4.65		4	.	6 5	
D. 2.24			.		
E. 7.70		7	.	7 0	

2. Complete the place value chart. Use fractions in the number sentences.

Number	Place Value				Number Sentence
	Tens	Ones	Tenths	Hundredths	
A. 11.28			.		$10 + 1 + \frac{2}{10} + \frac{8}{100} = 11\frac{28}{100}$
B. 27.08			.		
C. 60.33			.		
D. 17.5			.		
E. 6.84			.		

3. Label the following numbers on the number line below. The first one is an example.

Ex. 0.52 A. 0.2 B. 0.95 C. $\frac{27}{100}$
 D. 0.80 E. 4 skinnies, 3 bits F. 72 bits

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Name _____ Date _____

Linda's Base-Ten Pieces

Use base-ten pieces (packs, flats, skinnies, and bits) to answer the questions below. A flat is one whole. Use decimals in your answers.

- If a flat is 1, what number is a pack? _____
- If a flat is 1, what number is a skinny? _____
- If a flat is 1, what number is a bit? _____

Linda has two base-ten pieces. She might have bits, skinnies, flats, or packs. For example, she might have two flats. She might have something else.

- Find all the possible sets of pieces that Linda might have. Use base-ten shorthand to show each set she might have. Write the number for each set.
- What is the largest number that Linda could possibly have? Show or tell how you know.
- What is the smallest number that Linda could possibly have? Show or tell how you know.
- Put the numbers that Linda could have in order from smallest to largest.

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Many Ways to Show Hundredths (SAB p. 424)

Questions 1–3

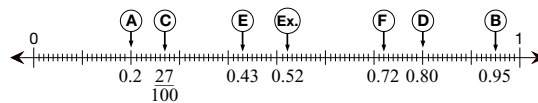
1.

Number	Place Value				Number Sentence
	Tens	Ones	Tenths	Hundredths	
A. 24.37	2	4	.	3 7	$20 + 4 + 0.3 + 0.07 = 24.37$
B. 13.09	1	3	.	0 9	$10 + 3 + 0.09 = 13.09$
C. 4.65	0	4	.	6 5	$4 + 0.6 + 0.05 = 4.65$
D. 2.24	0	2	.	2 4	$2 + 0.2 + 0.04 = 2.24$
E. 7.7	0	7	.	7 0	$7 + 0.7 = 7.7$

2.

Number	Place Value				Number Sentence
	Tens	Ones	Tenths	Hundredths	
A. 11.28	1	1	.	2 8	$10 + 1 + \frac{2}{10} + \frac{8}{100} = 11\frac{28}{100}$
B. 27.08	2	7	.	0 8	$20 + 7 + \frac{8}{100} = 27\frac{8}{100}$
C. 60.33	6	0	.	3 3	$60 + \frac{3}{10} + \frac{3}{100} = 60\frac{33}{100}$
D. 17.5	1	7	.	5 0	$10 + 7 + \frac{5}{10} = 17\frac{5}{10}$ or $17\frac{1}{2}$
E. 6.84	0	6	.	8 4	$6 + \frac{8}{10} + \frac{4}{100} = 6\frac{84}{100}$

3.



Linda's Base-Ten Pieces (SAB p. 427)

Questions 1–7

- 10.0 or 10 2. 0.1 3. 0.01
- | | | | |
|-----|-------|-----|------|
| □ □ | 20 | □ | 1.1 |
| □ | 11 | □ • | 1.01 |
| □ | 10.1 | | 0.2 |
| □ • | 10.01 | • | 0.11 |
| □ □ | 2 | • • | 0.02 |
- 20; Possible response: The packs are the biggest and show 10 each.
- 0.02; Possible response: There are only 2 bits and they are the smallest pieces.
- 0.02, 0.11, 0.2, 1.01, 1.1, 2, 10.01, 10.1, 11, 20