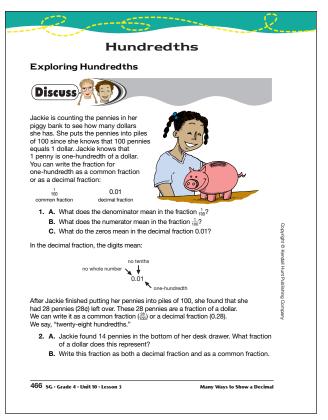
## Answer Key • Lesson 4: Hundredths

### **Student Guide**

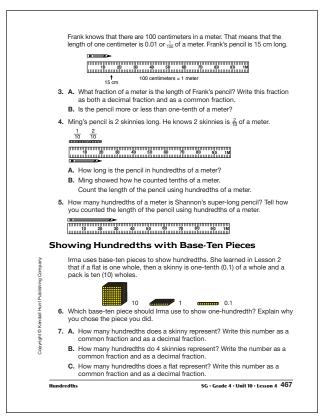
#### Questions 1-25 (SG pp. 466-471)

- **I. A.**\* A denominator of 100 means the whole is divided into 100 equal parts. In this case, one dollar is divided into 100 cents.
  - **B.**\* A numerator of 1 means we are interested in 1 of the equal parts.
  - **C.**\* The 0 to the left of the decimal point in 0.01 means there are no wholes and the 0 to the right of the decimal point means there are no tenths.
- **2. A.** fourteen-hundredths of a dollar
  - **B.**  $\frac{14}{100}$  and 0.14 (Writing .14 is acceptable.)
- **3.** A.\* fifteen-hundredths of a meter; 0.15,  $\frac{15}{100}$ 
  - B.\* More than one-tenth of a meter
- **4. A.**  $\frac{20}{100}$  of a meter
- **B.**  $\frac{10}{100}$  m,  $\frac{20}{100}$  m **5. A.**  $\frac{30}{100}$  of a meter;  $\frac{10}{100}$ ,  $\frac{20}{100}$  and  $\frac{30}{100}$  of a meter
- **6.**\* A bit is used to show one-hundredth because 100 bits make a flat.
- **7. A.** 10 hundredths;  $\frac{10}{100}$  and 0.10

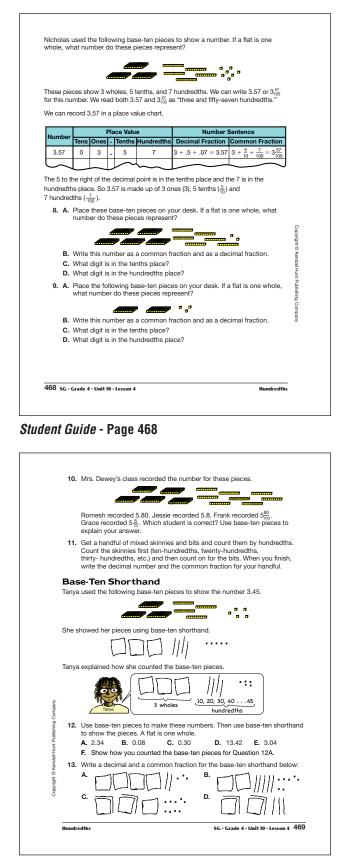
  - **B.** 40 hundredths;  $\frac{40}{100}$  and 0.40 **C.** 100 hundredths;  $\frac{100}{100}$  and 1.00 (or 1)





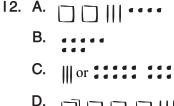


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**8. A.** 5.62; 5 wholes, 6 tenths, and 2 hundredths **B.**  $5\frac{62}{100}$  and 5.62

- **C.** 6
- **D.** 2
- **9. A.**\* two and three-hundredths
  - **B.**\*  $2\frac{3}{100}$  and 2.03
  - **C.\*** 0
  - **D.**\* 3
- 10.\* All are correct. 5.80 means five wholes, eight tenths, and no hundredths. 5.8 means five wholes and eight tenths; no hundredths is implied.  $5\frac{80}{100}$  and  $5\frac{8}{10}$  are the common fractions for these numbers. Using base-ten pieces, all four students show the same pieces. The difference is how they are counted. Romesh is counting the bits or hundredths. Jessie is counting skinnies or tenths.
- **II.** Answers will vary.



- E.

F. 
$$\bigcup_{\substack{2 \text{ wholes}}} \bigcup_{\substack{10 \ 20 \ 30 \dots \ 34 \\ \text{hundredths}}}$$

**B.** 2.57 and  $2\frac{57}{100}$ **13. A.** 4.23 and  $4\frac{23}{100}$ **C.** 21.09 and  $21\frac{9}{100}$ **D.** 20.3 and  $20\frac{3}{10}$ 

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

14. A. | and ||

**B.** Answers will vary. Possible response:

• • • • • • 0.15 and 
$$\frac{15}{100}$$

$$\begin{array}{c|c} \mathbf{15.} & \mathbf{A.} & \Box & \Box & \Vert \Vert \Vert \\ & and \\ \Box & \Box & \Vert \Vert \Vert \\ \end{array}$$

**B.** Answers will vary. Possible response:

2.53 and 
$$2\frac{55}{100}$$

**16. A.**\* 0.28

**B.\*** 0.01

**C.**\*  $\frac{1}{100}$ 

**D.\*** 0.29

$$E * 0.28 + 0.01 = 0.29$$

17. A. 0.28 0.29

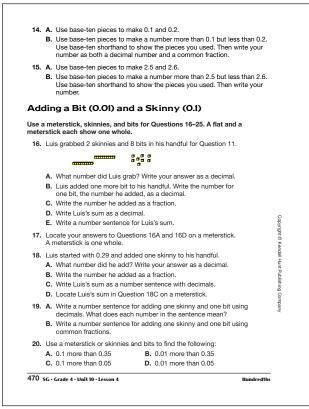
**18. A.**\* 0.10 or 0.1 **B.**\*  $\frac{10}{100}$  or  $\frac{1}{10}$ 

$$C.* 0.29 + 0.10 = 0.39$$

**19. A.**\* 0.10 + 0.01 = 0.11

The zeros to the left of the decimal mean no ones. The first place to the right of the decimal shows how many tenths. The second place to the right shows how many hundredths.

**B.\*** 
$$\frac{1}{10} + \frac{1}{100} = \frac{11}{100}$$
  
**20. A.** 0.45 **B.** 0.36  
**C.** 0.15 **D.** 0.06





21.	<ul> <li>Jerome used a meters nearest hundredth of a fractions.</li> </ul>				
	A. 5 skinnies and 5 bi	ts B.	3 skinnies	and 8 bits	
	C. 1 meterstick and 5		1 skinny a		
	<ul> <li>E. 15 bits</li> <li>G. 5 bits</li> </ul>		40 skinnie	s and 20 bits	
			2 skinnies	and 20 bits	
22.	Look at your meterstic				
	10 20 3		uuuuluuu	uuluuuuluuu	90 1
	A. Where is one-half (	27			
	<ul> <li>B. Where is one-fourth</li> <li>C. Where is three-fourth</li> </ul>	147			
		(4)			
23.	Use your work for Ques Use <, >, or =.	stion 21 to make	the number	sentences true.	
	<b>A.</b> 0.25 $()$ $\frac{1}{4}$	<b>B.</b> 0.25 (	0.1	<b>c.</b> 0.4 ()	0.25
	<b>D.</b> 0.5 $(1)^{\frac{1}{2}}$	E. 0.5	0.12	F. 0.50 ()	0.6
	<b>G.</b> 0.75 $\bigcirc \frac{3}{4}$	<b>H.</b> 0.75	0.9	I. 0.5 🔘	0.75
24.	Ana used metersticks below. Write each dist				tersticks
(0	)(F) (A)	© (0	) B	(E)	
		70 80 90 1M		nin	55 25
25.	Use your work for Que	stion 24 to make	e the numb	er sentences tru	ie.
	A. 1.50 0.82	В.	0.08	0.82	
	<b>C.</b> 0.16 () 1.30		1.08	1.50	
	Using a Hundreths Chan skip counting by hundre		udent Activ	ity Guide provic	le practio

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Com	plete these questions after playing Hundredths, Hundredths, Hundredths
1.	Lee Yah and Jerome were playing <i>Hundredths, Hundredths, Hundredths.</i> Jerome tried to trick Lee Yah by making this number:
	For her fractions Lee Yah wrote $\frac{23}{100}$ and 0.023 and said, "Twenty-three hundredths." Lee Yah said she should earn 3 points.
	Jerome thought that Lee Yah was wrong, but he couldn't explain why. What do you think?
2.	Write the common fraction and decimal for the next number Jerome made
3.	Write the common fraction and decimal for Lee Yah's next number.
	/// □□ //// ::::: ·
4.	Jessie and Roberto were playing. Roberto made this number. Write the common fraction and decimal fraction for Roberto's number.
5.	Jessie made 6.48. Use base-ten shorthand to show this number.
6.	Roberto wanted to build the number 9.06. Use base-ten shorthand to sho what pieces he should use.
7.	Jessie wrote nine and six-hundredths as 9.6. Explain why this is incorrect.
Me	asuring a Hundredth of a Meter
8.	Jerome measured several distances. They are labeled on the metersticks below. Write each distance to the nearest hundredth of a meter.
	(A)(C) (B)
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<b>21. A.</b> 0.55 met	ter	В.	0.38 meter
<b>C.</b> 1.05 met	ters	D.	0.15 meter
<b>E.</b> 0.15 met	ter	F.	0.40 meter
<b>G.</b> 0.05 met	ter	Н.	0.40 meter
<b>22. A.</b> 0.50 met	ter		
<b>B.</b> 0.25 met	ter		
<b>C.</b> 0.75 met	ters		
23. A. =	<b>B</b> . >		<b>C.</b> >
20. 7.			
D. =	E. >		<b>F.</b> <
			F. < I. <
D. =	E. > H. <	B.	
D. = G. =	<b>E.</b> > <b>H.</b> <		<b>I.</b> <
D. = G. = 24. A. 0.30 met	E. > H. < ter	D.	<b>I.</b> < 1.30 meters
D. = G. = 24. A. 0.30 met C. 0.81 met	E. > H. < ter	D.	<b>I.</b> < 1.30 meters 0.08 meter 0.15 meter
D. = G. = 24. A. 0.30 met C. 0.81 met E. 1.50 met	E. > H. < ter	D. F.	<b>I.</b> < 1.30 meters 0.08 meter 0.15 meter <

# **Student Guide**

## Homework (SG p. 473)

### **Questions 1–8**

- **I.** Possible responses: The common fraction  $\frac{23}{100}$  is correct, but the decimal fraction 0.023 is not correct. Lee Yah is wrong because the 0 in the tenths place in 0.023 means that there are no tenths. Since the twenty bits can be traded for two skinnies with 3 bits (3 hundredths) left over, the number should be written 0.23.
- **2.**  $2\frac{52}{100}$  and 2.52 **3.**  $2\frac{91}{100}$  and 2.91 **4.**  $\frac{54}{100}$  and 0.54

- 5. 10000 ||||
- 6. Ш כוכוכו
- 7. 9.6 means 9 wholes and 6 tenths, not 9 wholes and 6 hundredths. Nine and six-hundredths is written: 9.06
- **8. A.** 0.40 of a meter
  - **B.** 1.04 meters
  - **C.** 0.48 of a meter
  - **D.** 1.10 meters
  - **E.** 1.83 meters