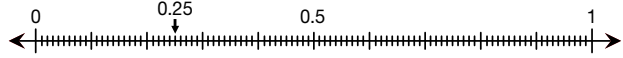


**Student Activity Book**

**Moving Ahead with Decimals**

**Questions 1–26 (SAB p. 439–454)**

- Circle A, D, E, F, I
- A.  $\frac{25}{100}$ , twenty-five hundredths  
B. Possible responses:



- A. 6 skinnies, 0.6 of a meter, 0.6 of a flat,  $\frac{6}{10}$ , or six-tenths.  
B. Yes. 1 Skinny = 10 bits, 6 Skinny = 60 bits or 60 hundredths.  
C. 0.6 of a meter
- A. 0.5 of a meter  
B. 0.48 of a meter  
C. Frank's ribbon is longer. Frank has more than 5 skinnies, and Maya has less than 5 skinnies.
- A. 0.1, 0.2, 0.3  
B. ten-hundredths, twenty-hundredths, thirty-hundredths  
0.10, 0.20, 0.30
- A.  $\frac{85}{100}$ , 0.85, eighty-five hundredths

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### Moving Ahead with Decimals

Showing Decimals

✓ **Self-Check: Questions 1 and 2**

1. Roberto and his friends showed *four-tenths* several ways. Circle those that are correct.

A. A flat is one whole.      B. A flat is one whole.

C.  $\frac{4}{100}$       D.  $\frac{4}{10}$       E. 0.4      F. A circle is 1 whole.

G. A number line from 0 to 1 with major tick marks at 0, 0.4, and 1. A point is marked at 0.4 with a vertical line and a dot to its right.

H. \$0.04      I. \$0.40  
A dollar is one whole.      A dollar is one whole.

2. A. Write 0.25 as a common fraction and with words. Use the *Writing Numbers with Words* page in the *Student Guide Reference* section.  
B. Show 0.25 two more ways.

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**Circle one group of problems in each row to complete.**

Can I Do This?	Working On It! <small>I could use some extra help.</small>	Getting It! <small>I just need some more practice.</small>	Got It! <small>I'm ready for a challenge.</small>
Show a decimal in different ways.	★Q# 3, 4, 5	●Q# 8–10	■Q# 8, 10, 11, 12
Read and write decimals with words and numbers.	★Q# 6–7	●Q# 7	■Q# 13

Use skinnies and bits to help you answer Questions 3–4.

★3. A. Frank used skinnies to measure a piece of ribbon. If a skinny is one-tenth of a meter, how long is the ribbon?

B. Frank said the ribbon is sixty-hundredths of a meter. Do you agree with Frank? Why or why not?

C. Write the ribbon length to the nearest tenth of a meter as a decimal.

★4. A. Maya's ribbon measured four skinnies and eight bits. How long is Maya's ribbon to the nearest tenth of a meter? Use decimals.  
B. How long is Maya's ribbon to the nearest hundredth of a meter? Use decimals.  
C. Who's ribbon is longer? Frank's or Maya's? Show how you know.

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Use skinnies, bits, and a meterstick to help you answer Questions 5–6.

★5. Shannon showed how she counted tenths using base-ten pieces.

A. Write Shannon's counts with decimals.  
decimals: \_\_\_\_\_

B. Show how Shannon could count the same pieces by hundredths instead of tenths. Write your counts with words and with decimals.  
words: \_\_\_\_\_  
decimals: \_\_\_\_\_

★6. Ana measured a length of rope to the nearest hundredth of a meter.

Write her measurement three ways:  
common fraction      decimal      words

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# Answer Key • Lesson 6 • Workshop: Decimal Concepts

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★●7. Fill in the chart. The first row is an example. The red circle is one whole. Use the *Writing Numbers with Words* page in the *Student Guide Reference* section.

Drawing	Fraction in Words	Fraction	Decimal
	two-tenths	$\frac{2}{10}$	0.2
A.	one-fifth	$\frac{1}{5}$	0.2
B.	three-tenths	$\frac{3}{10}$	0.3
C.	four-tenths	$\frac{4}{10}$	0.4
D.	two-fifths	$\frac{2}{5}$	0.4
E.	five-tenths	$\frac{5}{10}$	0.5
F.	one-half	$\frac{1}{2}$	0.5

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■●8. Show the fractions in each box four ways. The first one is an example. Use the *Writing Numbers with Words* page in the *Student Guide Reference* section.

**Example**

$\frac{0.8}{\text{decimal fraction}}$	<p>A circle is the unit whole. drawing</p>
$\frac{8}{10}$ common fraction	
eight-tenths words	

number line

**8A.**

$\frac{0.22}{\text{decimal fraction}}$	<p>A flat is one whole. drawing</p>
$\frac{22}{100}$ common fraction	
twenty-two hundredths words	

number line

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**8B.**

$\frac{1.52}{\text{decimal fraction}}$	<p>A flat is one whole. drawing</p>
$1\frac{52}{100}$ or $\frac{152}{100}$ common fraction	
one and fifty-two hundredths of a meter words	

metersticks

**8C.**

$\frac{0.72}{\text{decimal fraction}}$	<p>A dollar is one whole. drawing</p>
$\frac{72}{100}$ common fraction	
seventy-two hundredths words	

number line

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**8D.**

$\frac{1.04}{\text{decimal fraction}}$	<p>A flat is one whole. drawing</p>
$\frac{4}{100}$ common fraction	
one and four-hundredths words	

number line

**8E.**

$\frac{1.25}{\text{decimal fraction}}$	<p>A circle is one whole. drawing</p>
$\frac{125}{100}$ common fraction	
one and twenty-five hundredths words	

number line

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- 9. For the base-ten pieces shown below, the flat is the unit whole.



- What number is shown by the flat?
- What decimal is shown by the skinnies?
- What decimal is shown by the bits?
- Use the information from Questions A–C to write a number sentence to show the value of the decimal shown by all the pieces combined.
- Write the decimal in words.

- 10. Fill in the missing information in the place value table. In the last column, write a number sentence that shows what each digit stands for.

	Place Value					Number Sentence	
	Number	Tens	Ones	Tenths	Hundredths		
Example	4.56	0	4	.	5	6	$4 + 0.5 + 0.06 = 4.56$
A.		0	4	.	6	0	
B.				.			$4 + 0.5 + 0.01 = 4.51$
C.		4	0	.	0	6	
D.							$40 + 0.6 = 40.6$

- E. Show the numbers in Questions A and B in base-ten shorthand if a flat is one whole.

- 1 whole
  - 3 tenths or 0.3
  - 7 hundredths or 0.07
  - $1 + 0.3 + 0.07 = 1.37$
  - one and thirty-seven hundredths

10.

	Number	Tens	Ones	.	Tenths	Hundredths	Number Sentence
A.	4.60	0	4	.	6	0	$4 + 0.6 = 4.6$
B.	4.51	0	4	.	5	1	$4 + 0.5 + .01 = 4.51$
C.	40.06	4	0	.	0	6	$40 + 0.06 = 40.06$
D.	40.6	4	0	.	6	0	$40 + 0.6 = 40.6$

E. 4.60



4.51



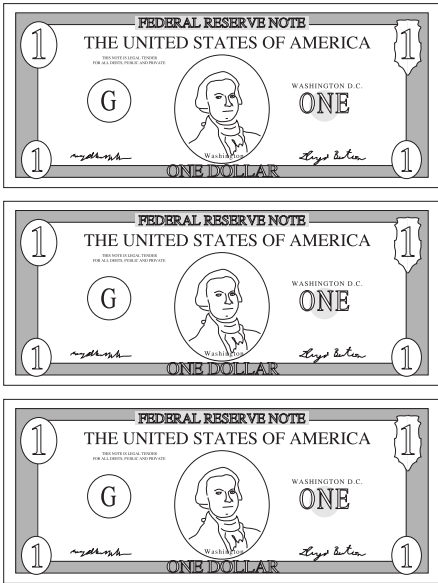
11. Responses may vary. Possible responses:



Three and sixty-seven hundredths

$$3 \frac{67}{100}$$

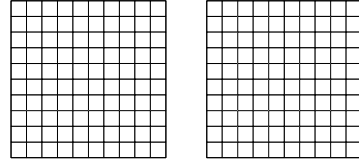
$$3 + 0.6 + 0.07 = 3.67$$



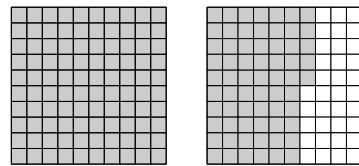
Name \_\_\_\_\_ Date \_\_\_\_\_

11. Show 3.67 four ways.

12. Shade the grids below to show 1.53. One square grid is one whole.



13. Kenya showed a number on the grids below. If one square is one whole, what number did Kenya represent? Write your answer as a decimal.

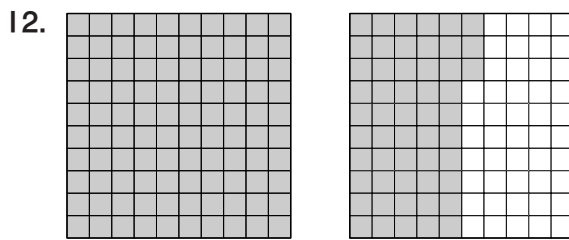


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13. 1.65

14. 0.08,  $\frac{2}{10}$ , 0.24, 0.8, 1.38, 1.4

15. A. 1.2  $>$  0.8      B. 0.6  $>$  0.06

C. 2.6  $>$  2.58      D.  $\frac{7}{10}$   $=$  0.7

E. 0.07  $>$   $\frac{5}{100}$

F. Possible response: I pictured the numbers with base-ten pieces.



2.6 is larger than 2.58 by 2 bits or 2 hundredths.

Comparing and Ordering Decimals

✓ Self-Check: Questions 14 and 15

Use base-ten pieces or metersticks to help you.

14. Put the following numbers in order from smallest to largest.

0.8    0.08    1.4    1.38    0.24     $\frac{2}{10}$

smallest \_\_\_\_\_ largest \_\_\_\_\_

15. Use  $<$ ,  $>$ , or  $=$  to make the number sentences below true.

A. 1.2  $\bigcirc$  0.8    B. 0.6  $\bigcirc$  0.06    C. 2.6  $\bigcirc$  2.58    D.  $\frac{7}{10}$   $\bigcirc$  0.7    E. 0.07  $\bigcirc$   $\frac{5}{100}$

F. Explain your thinking for Question 15C.

Use the Self-Check Questions and menu to choose practice with comparing and ordering decimals.

Compare and order decimals.	Working On It I could use base-ten blocks.	Getting It I just need some more base-ten blocks.	Got It! I'm ready for a challenge.
★ Q# 16-21	● Q# 18, 20-24	■ Q# 18, 24-26	

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19. A. 
- B. 
- C. 
- D. 
- E. 

20. 0.02, 0.4, 0.43, 2.40, 2.43, 2.5
21. Possible response: I do not agree with Irma. I pictured skinnies and bits and 0.43 is 4 skinnies and 3 more bits. 0.4 is just 4 skinnies. So 0.43 is larger.
22. Yes, I agree with Ming. You can skip count 10 hundredths, 20 hundredths, 30 hundredths or 1 tenth, 2 tenths, 3 tenths. They are the same.
23. A.  $3.25 < 3.52$     B.  $2\frac{3}{10} < 2.33$   
 C.  $0.14 = \frac{14}{100}$     D.  $0.61 > 0.60$   
 E.  $1.03 > 1.02$     F.  $2.55 > 2\frac{5}{10}$
- G. Possible response: I skip counted on the meterstick from zero. 2.55 is  $\frac{5}{100}$  more than  $2\frac{5}{10}$ . So 2.55 is larger.
24. A. 0.14 and  $\frac{14}{100}$ , 0.60, 0.61  
 B.  $2\frac{3}{10}$ , 2.33,  $2\frac{5}{10}$ , 2.55

Name \_\_\_\_\_ Date \_\_\_\_\_

★19. Show the following numbers using base-ten shorthand. A flat is one whole.

Example: 2.40 

- A. 2.43 \_\_\_\_\_  
 B. 2.5 \_\_\_\_\_  
 C. 0.02 \_\_\_\_\_  
 D. 0.4 \_\_\_\_\_  
 E. 0.43 \_\_\_\_\_

★20. Order the numbers in Question 19 from smallest to largest. Include the example.

\_\_\_\_\_ smallest \_\_\_\_\_ largest

★21. Irma compared 0.4 and 0.43.



$0.4 > 0.43$   
 0.4 or four-tenths is larger than forty-three hundredths because tenths are bigger than those little hundredths.

Do you agree with Irma? Why or why not?

★22. Ming compared two decimals.



Thirty hundredths is equal to three-tenths because thirty bits looks like it is the same length as three skinnies.

Do you agree with Ming? Why or why not?

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●23. Use  $<$ ,  $>$ , or  $=$  to make the number sentences below true.

- A.  $3.25 \bigcirc 3.52$     B.  $2\frac{3}{10} \bigcirc 2.33$   
 C.  $0.14 \bigcirc \frac{14}{100}$     D.  $0.61 \bigcirc 0.60$   
 E.  $1.03 \bigcirc 1.02$     F.  $2.55 \bigcirc 2\frac{5}{10}$

G. Show your thinking for Question 23F.

●24. Use your responses in Question 23 to put the following numbers in order from smallest to largest. If two numbers are equal, put them on the same line.

- A. 0.14    0.61    0.60     $\frac{14}{100}$

\_\_\_\_\_ smallest \_\_\_\_\_ largest

- B.  $2.55$      $2\frac{5}{10}$     2.33     $2\frac{3}{10}$

\_\_\_\_\_ smallest \_\_\_\_\_ largest

●25. Jerome showed how he compared 0.72 and 0.73.



$0.73 \bigcirc 0.72$ . I pictured skinnies and bits lined up. 0.73 has one more bit.

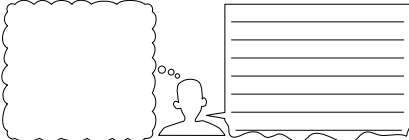
Do you agree with Jerome? Why or why not?

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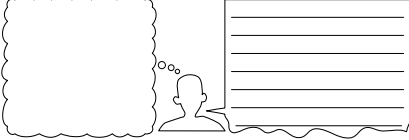
Name \_\_\_\_\_ Date \_\_\_\_\_

●26. Like Jerome, show your thinking as you compare each set of numbers.

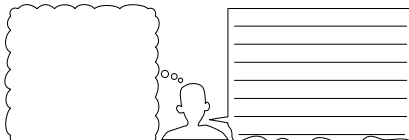
A. Compare 2.01 and 2.10.



B. Compare 0.43 and 0.08.



C. Compare 0.6 and 0.60.



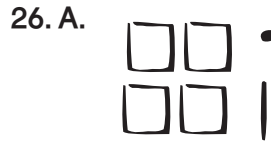
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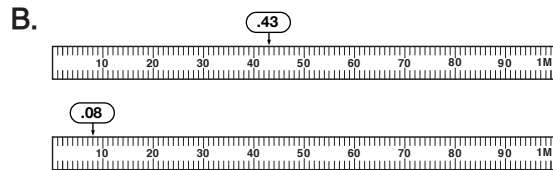
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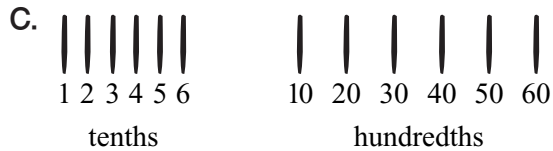
25. Possible response: Yes, I agree with Jerome. I picture these two numbers on a number line. 0.73 is one hundredth larger than 0.72.



Possible response:  $2.01 < 2.10$ . I pictured base-ten pieces. A skinny or a tenth is larger than one hundredth or a bit.



Possible response:  $0.43 > 0.08$ . I pictured two metersticks. 0.08 is close to zero and 0.43 is close to half. So 0.43 is bigger.



Possible response:  $0.6 = 0.60$ . I skip counted but the skinnies look the same. So the numbers are equal.