

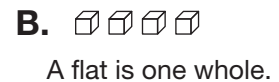
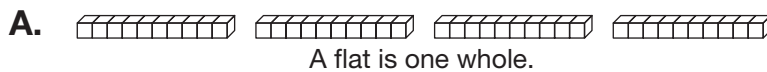
Moving Ahead with Decimals

Showing Decimals



Self-Check: Questions 1 and 2

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

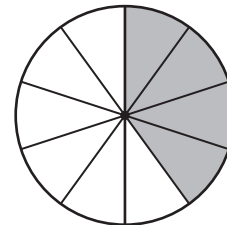


C. $\frac{4}{100}$

D. $\frac{4}{10}$

E. 0.4

F.



A circle is 1 whole.



\$0.04

A dollar is one whole.

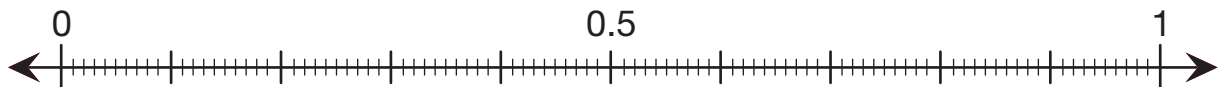


\$0.40




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.

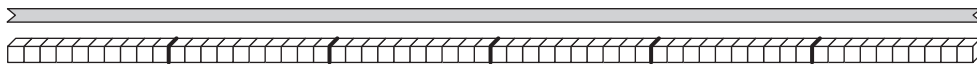


Circle one group of problems in each row to complete.

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



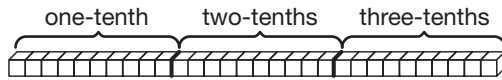
- B.** Frank said the ribbon is sixty-hundredths of a meter. Do you agree with Frank? Why or why not?
- C.** Write the ribbon length to the nearest tenth of a meter as a decimal.

- ▲ 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.** Whose ribbon is longer? Frank's or Maya's? Show how you know.

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

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



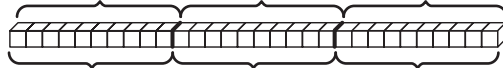
A. Write Shannon's counts with decimals.

decimals: _____



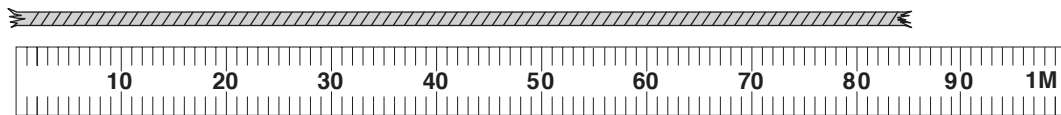
B. Show how Shannon could count the same pieces by hundredths instead of tenths. Write your counts with words and with decimals.

words: _____



decimals: _____

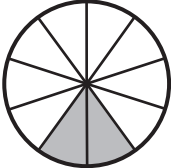
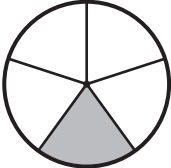
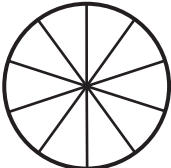
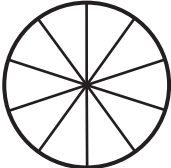
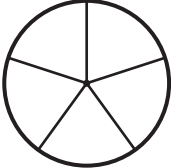
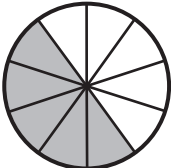
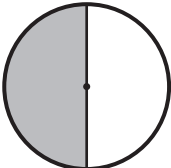
▲ **6.** Ana measured a length of rope to the nearest hundredth of a meter.



Write her measurement three ways:

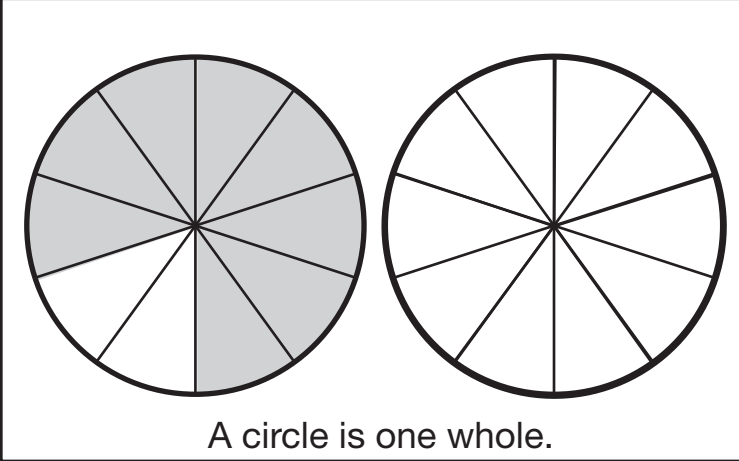
_____ _____ _____
 common fraction decimal words


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
Example 	two-tenths	$\frac{2}{10}$	0.2
A. 		$\frac{1}{5}$	0.2
B. 		$\frac{3}{10}$	
C. 	four-tenths		
D. 		$\frac{2}{5}$	
E. 	five-tenths		
F. 		$\frac{1}{2}$	

- 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.

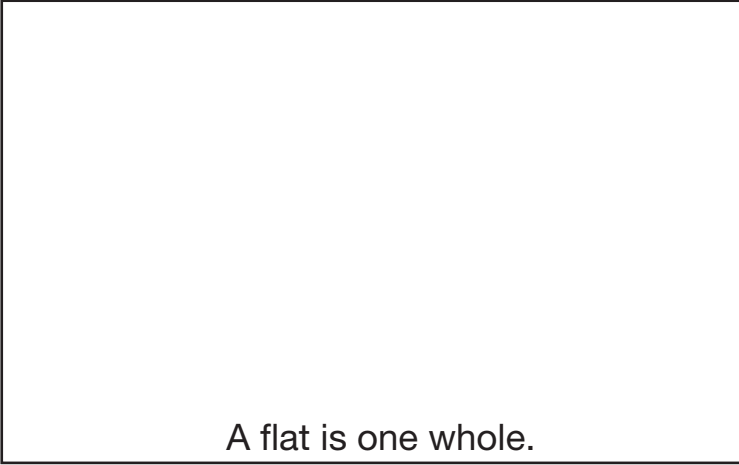
Example


$\frac{0.8}{\text{decimal fraction}}$ $\frac{8}{10}$ $\frac{\text{eight-tenths}}{\text{words}}$	 <p>A circle is one whole.</p>
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 number line

8A.

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



 number line

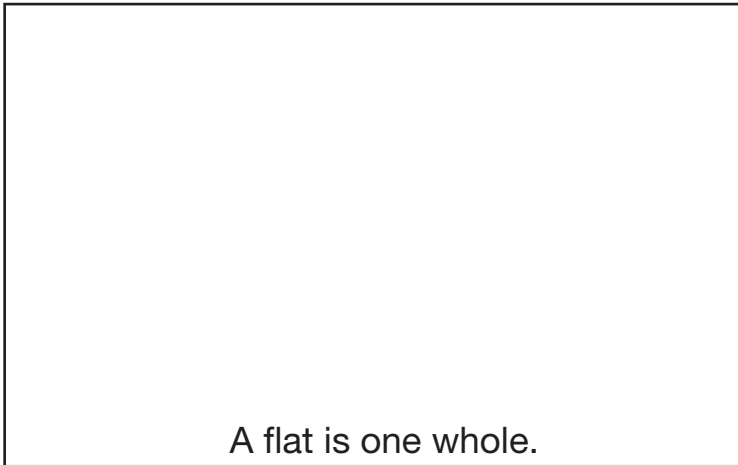
8B.

decimal fraction

common fraction

one and fifty-two hundredths
of a meter

words



A flat is one whole.

drawing



metersticks

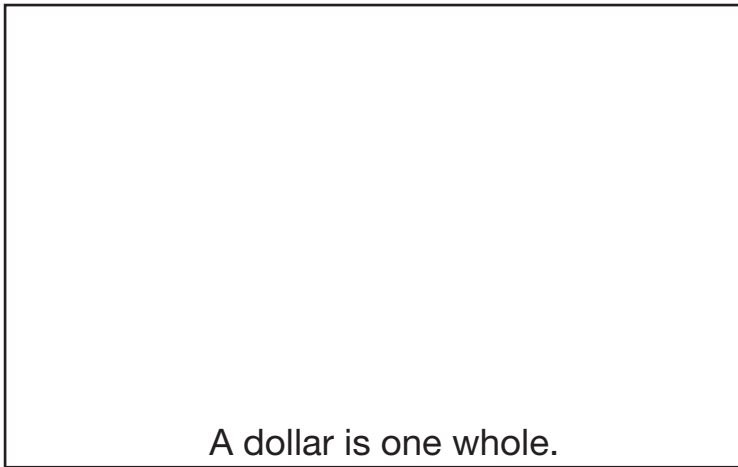
8C.

0.72

decimal fraction

common fraction

words



A dollar is one whole.

drawing



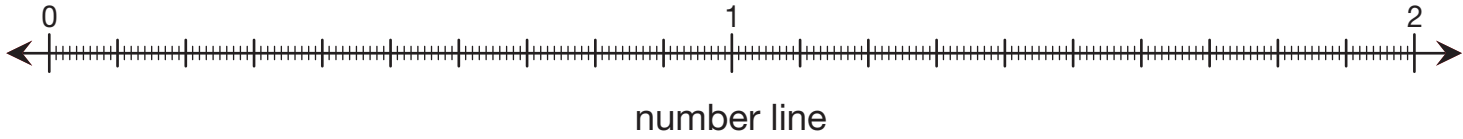
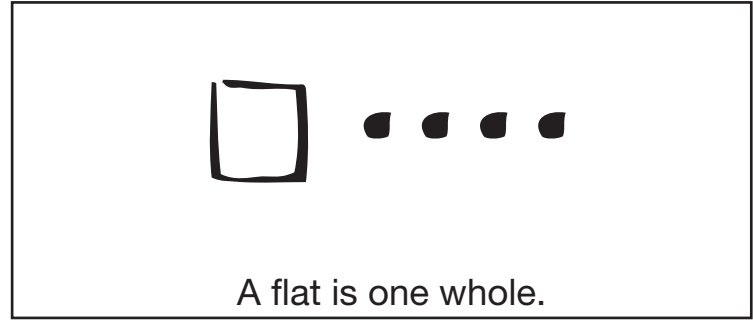
number line

Name _____ Date _____

8D.

_____ decimal fraction _____ common fraction

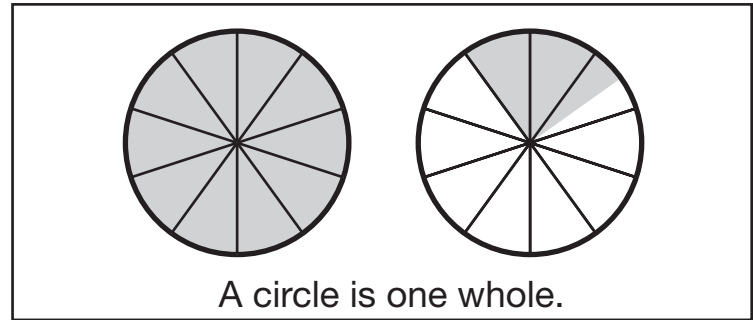
_____ words



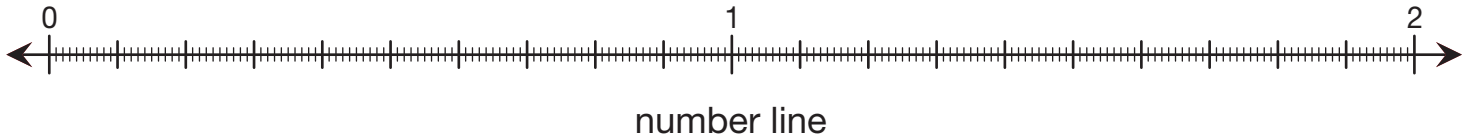
8E.

_____ 1.25 _____
decimal fraction common fraction

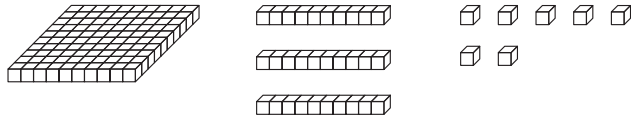
_____ words



drawing



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



- A.** What number is shown by the flat?
- B.** What decimal is shown by the skinnies?
- C.** What decimal is shown by the bits?
- D.** 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.
- E.** Write the decimal in words.

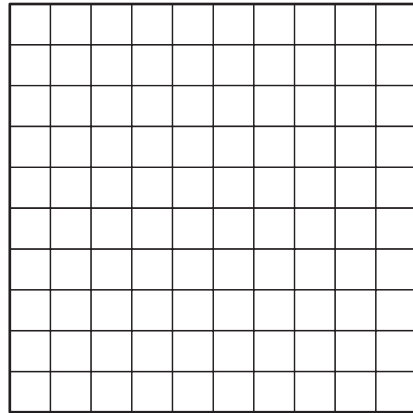
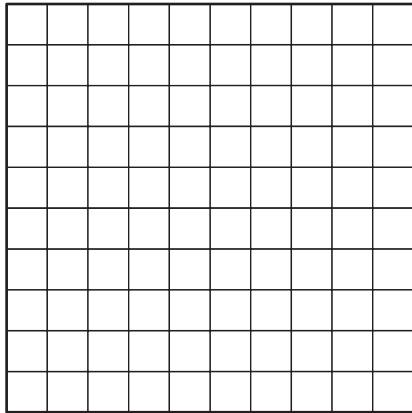
10. Fill in the missing information in the place value table. In the last column, write a number sentence that shows what each digit stands for.


		Place Value					
	Number	Tens	Ones	.	Tenths	Hundredths	Number Sentence
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.							$40 + 0.6 = 40.6$

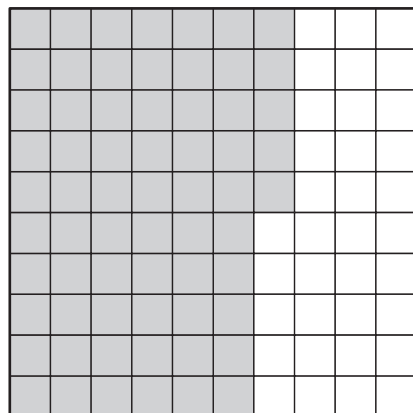
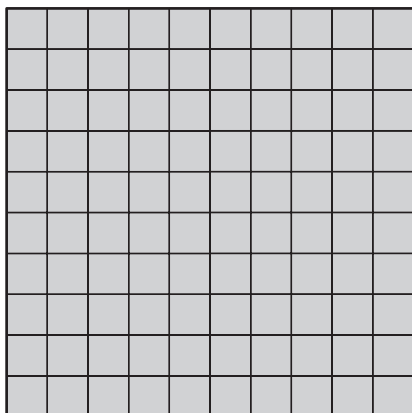
E. Show the numbers in Questions A and B in base-ten shorthand if a flat is one whole.

 **11.** Show 3.67 four ways.

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



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



Name _____ Date _____

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.

Workshop Menu

	▲ Working On It!	● Getting It!	■ Got It!
Can I Do This?	 	 	
Compare and order decimals.	Questions 16–21	Questions 18, 20–24	Questions 18, 24–26