

Practice 1 Understanding Thousandths

Write the decimal shown in each place-value chart.

Example =

Ones	Tenths	Hundredths	Thousandths
	00	0 0	0000

0.237

1.

Ones	Tenths	Hundredths	Thousandths
0 0		000	000

2.

Ones	Tenths	Hundredths	Thousandths
00			
00			00000
00			0000

1

Write the decimal shown in the place-value chart.

3.

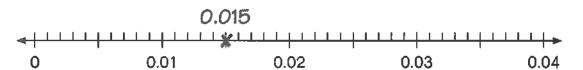
Ones	Tenths	Hundredths	Thousandths
00	00	0	

Mark X to show where each decimal is located.

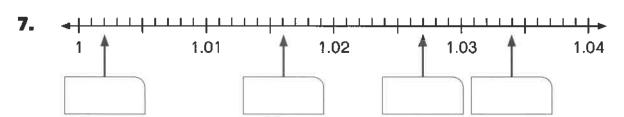
4. 0.006

5. 0.024

6. 0.033



Write the decimal shown by each arrow.



Complete.

- **8.** 4 hundredths = _____ thousandths
- **9.** 8 tenths 5 hundredths = _____ thousandths
- **10.** 20 thousandths = _____ hundredths
- **11.** 125 thousandths = 1 tenth _____ thousandths

Complete.

12. 0.126 = 1 tenth 2 hundredths ______ thousandths

13. 0.352 = 3 tenths ______ hundredths 2 thousandths

Write the equivalent decimal.

Write each fraction as a decimal.

18.
$$\frac{13}{1000} =$$

19.
$$\frac{55}{1000} =$$

20.
$$\frac{228}{1000} =$$

21.
$$\frac{430}{1000} =$$

Write each mixed number as a decimal.

22.
$$2\frac{3}{1000} =$$

23.
$$6\frac{61}{1000} =$$

24.
$$7\frac{107}{1000} =$$

25.
$$8\frac{240}{1000} =$$

Write each improper fraction as a decimal.

26.
$$\frac{1005}{1000} =$$

27.
$$\frac{1013}{1000} =$$

28.
$$\frac{2341}{1000} =$$

29.
$$\frac{3450}{1000} =$$

Complete.

1.234 can be written in expanded form as $1 + \frac{2}{10} + \frac{3}{100} + \frac{4}{1000}$. Write each decimal in expanded notation.

9.876 can be written in expanded form as 9+0.8+0.07+0.006. Write each decimal in expanded notation.

Complete.

In 5.074.

Practice 2 Comparing and Rounding Decimals

Compare the decimals in each place-value chart.

Fill in the blanks. Write > or < in the ...

Example -

Ones	Tenths	Hundredths	Thousandths
0	0	2	
0	0	1	5

0.02 is greater than ______

0.02 (>) 0.015

1.

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Ones	Tenths	Hundredths	Thousandths
0	3	0	8
0	2	9	

_____ is less than _____.



2.

Ones	Tenths	Hundredths	Thousandths
4	0	9	1
4	. 1	9	

_____ is less than _____.

Write the greater decimal.

- **3.** 11.6 or 21.8 _____
- **4.** 10.55 or 10.05 _____
- **5.** 20.07 or 20.01 _____
- **6.** 100.202 or 100.212 _____

Write >, <, or = in each ().

- **7.** 3.7 0.370
- 9. 0.205 2.05

- **8.** 0.150 0.51
- **10.** 2.3 2.30

Circle the greatest decimal and underline the least.

11. 1.03, 1.3, 0.13

- **12.** 0.5, 0.53, 0.503
- **13.** 2.35, 2.305, 2.035
- **14.** 8.7, 8.07, 8.701

Order the decimals from least to greatest.

Example 3.33, 3.03, 3.303 3.03, 3.303, 3.303

- **15.** 5.51, 5.051, 5.501
- **16.** 4, 4.01, 4.001
- **17.** 0.023, 0.203, 0.230

Write the missing decimal in each box. Round the given decimal to the nearest hundredth.

1.05

1.056 rounded to the nearest hundredth is ______.

2.39

2.395 rounded to the nearest hundredth is ______.

5.994

5.994 rounded to the nearest hundredth is ______.

Fill in the blanks.

21. The mass of a sewing needle is 0.585 gram.

Round the mass to the nearest hundredth of a gram.

______. 0.585 g ____ rounds to ______.

22. The width of a pinhead is 0.098 centimeter. Round the width to two decimal places.

_____ rounds to _____.

23. 1 centimeter is equal to 0.394 inches.
Round 0.394 inches to the nearest hundredth of an inch.

_____ rounds to _____.

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Round each decimal to the nearest whole number, nearest tenth, and nearest hundredth.

24.

Decimal	Rounded to the Nearest		
	Whole Number	Tenth	Hundredth
1.049			
3.753			
2.199			

Fill in the blanks.

25. A decimal rounded to the nearest tenth is 2.5. Write two decimals that can be rounded to 2.5.

_____ and ____

A decimal rounded to the nearest hundredth is 4.09. Write two decimals that can be rounded to 4.09.

_____ and ____

27. A decimal rounded to the nearest hundredth is 6.32. This decimal is greater than 6.32.

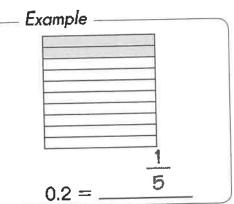
What could this decimal be?

28. A decimal rounded to the nearest hundredth is 7.01. This decimal is less than 7.01.

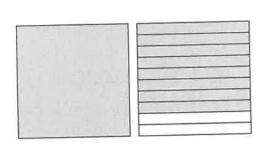
What could this decimal be?

Practice 3 Rewriting Decimals as Fractions and Mixed Numbers

Rewrite each decimal as a fraction or mixed number in simplest form.

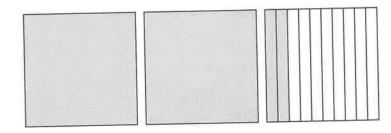


1.

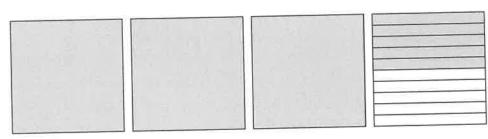


2.

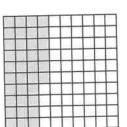
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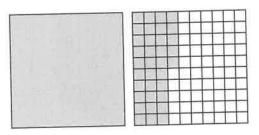
3.



4.

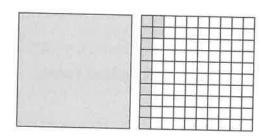


5.

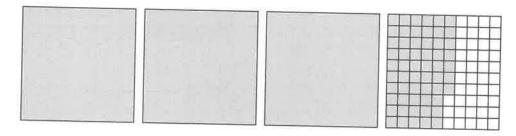


Rewrite each decimal as a fraction or mixed number in simplest form.

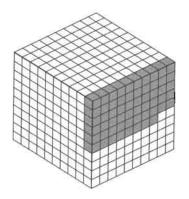
6.



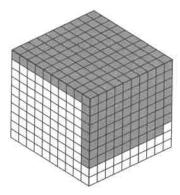
7.



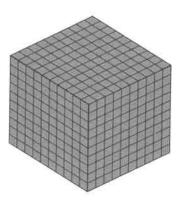
8.

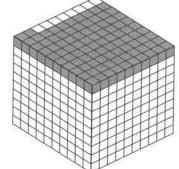


9.

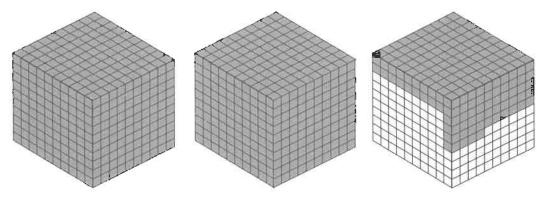


10.





11.

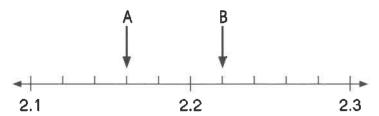


Rewrite each decimal as a fraction or mixed number in simplest form.



1. Explain why 1.8, 1.80, and 1.800 have the same value.

2. Howard does not know how to find the values of A and B on the number line. Write the steps Howard should use to find these values.



Find the value of each mark on the number line first.



Put On Your Thinking Cap!



Challenging Practice

Solve.

- 1. You are given two numbers, 3.987 and 70.140.
 - a. Round each number to the nearest tenth.
 - **b.** Round each number to the nearest hundredth.
 - c. Find the difference between your rounded answers for 3.987.
 - d Find the difference between your rounded answers for 70.140.
 - e. Are your answers in Exercises a and b the same? Explain why or why not.

Complete.

$$2. \qquad 4.129 = 4 + \frac{1}{10} + \frac{29}{10}$$

$$3. 2.075 = 2 + \frac{1000}{1000} + \frac{5}{1000}$$

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Solve. Show your work.

1. Kimberly has 3.25 kilograms of flour in a container. She adds 45 grams of flour to the container. How many kilograms of flour does she have now?

The weight of four objects are $3\frac{1}{5}$ pounds, $3\frac{39}{1000}$ pounds, $3\frac{99}{100}$ pounds and $3\frac{52}{10}$ pounds. Arrange the weights in order from least to greatest.