

Name: _____

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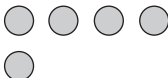
CHAPTER 8

Decimals

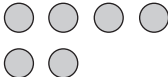

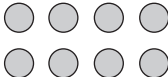
Lesson 8.1 Understanding Thousandths

Write the decimal shown in each place-value chart.


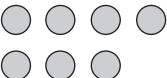
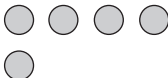
1.

Ones	Tenths	Hundredths	Thousandths
			

2.

Ones	Tenths	Hundredths	Thousandths
			

3.

Ones	Tenths	Hundredths	Thousandths
			

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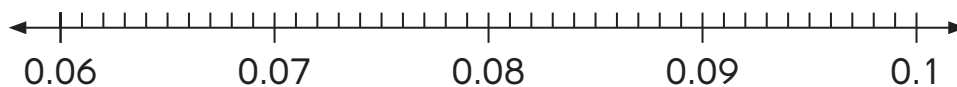
Mark an X to show where each decimal is located.

4. 0.063

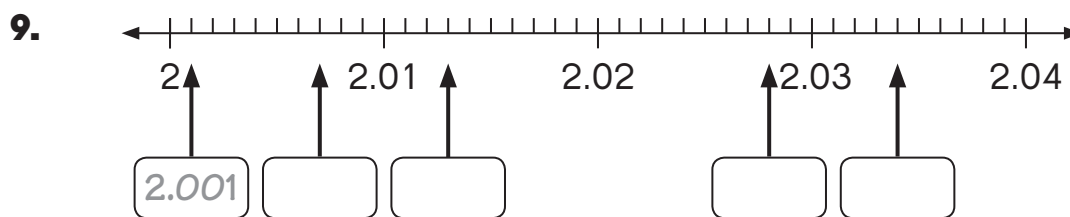
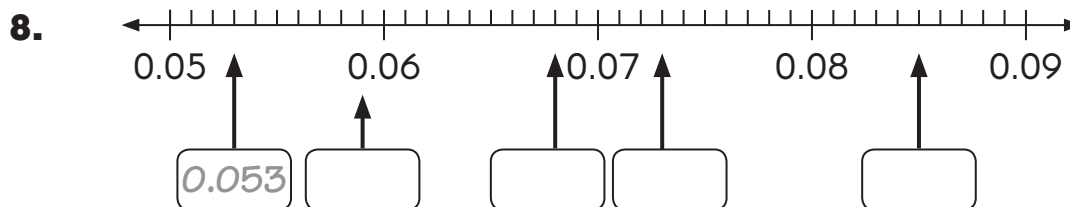
5. 0.075

6. 0.082

7. 0.098



Write the decimal shown by each arrow.



Complete.

10. 6 hundredths = _____ thousandths

11. 2 tenths 12 thousandths = _____ thousandths

12. 580 thousandths = _____ hundredths

13. 703 thousandths = 7 tenths _____ thousandths

14. 0.727 = 7 tenths _____ hundredths 7 thousandths

15. 0.094 = _____ tenths 9 hundredths _____ thousandths

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Write the equivalent decimal.

16. 9 thousandths = _____

17. 25 thousandths = _____

18. 416 thousandths = _____

19. 1,055 thousandths = _____

Write each fraction or improper fraction as a decimal.

20. $\frac{5}{1000} =$ _____

21. $\frac{78}{1000} =$ _____

22. $\frac{110}{1000} =$ _____

23. $\frac{603}{1000} =$ _____

24. $\frac{2508}{1000} =$ _____

25. $\frac{2640}{1000} =$ _____

26. $\frac{3009}{1000} =$ _____

27. $\frac{4567}{1000} =$ _____

Write each mixed number as a decimal.

28. $1\frac{4}{1000} =$ _____

29. $3\frac{82}{1000} =$ _____

30. $5\frac{606}{1000} =$ _____

31. $7\frac{190}{1000} =$ _____

Complete.

32. 0.217 = _____ thousandths

33. 0.006 = _____ thousandths

34. 0.095 = _____ thousandths

35. 1.702 = _____ thousandths

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2.345 can be written in expanded form as $2 + \frac{3}{10} + \frac{4}{100} + \frac{5}{1000}$.

Write each decimal in expanded notation.

36. $8.764 =$ $+$ $+$ $+$

37. $3.523 =$ $+$ $+$ $+$

8.765 can be written in expanded form as $8 + 0.7 + 0.06 + 0.005$.

Write each decimal in expanded notation.

38. $5.213 =$ _____ $+$ _____ $+$ _____ $+$ _____

39. $1.945 =$ _____ $+$ _____ $+$ _____ $+$ _____

Complete.

In 9.407,

40. the digit 7 is in the _____ place.

41. the value of the digit 0 is _____.

42. the digit 4 is in the _____ place.

43. the digit 9 stands for _____.

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Lesson 8.2 Comparing and Rounding Decimals

Compare the decimals in each place-value chart.

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

1.

Ones	Tenths	Hundredths	Thousandths
5	0	7	8
4	0	8	7


_____ is greater than _____.

_____  _____

2.

Ones	Tenths	Hundredths	Thousandths
0	6	5	4
0	9	4	5

_____ is less than _____.

_____  _____

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3.

Ones	Tenths	Hundredths	Thousandths
4	2	7	0
4	7	2	0

_____ is greater than _____.



Write $>$, $<$, or $=$ in each .

4. 0.589  0.859

5. 3.409  3.094

6. 0.065  0.605

7. 9.10  9.06

Circle the greatest decimal and underline the least.

8. 5.609 5.69 5.069 5.6

9. 80.002 80.02 80.2 80.202

Order the decimals from least to greatest.

10. 0.965, 0.956, 0.569 _____

11. 6.309, 9.036, 6.903 _____

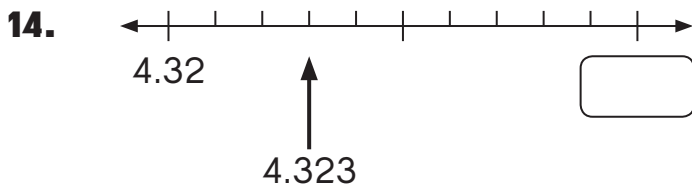
12. 0.8, 0.088, 0.808, 0.88 _____

13. 0.029, 0.1, 0.999, 1 _____

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



4.323 rounded to the nearest hundredth is _____.



7.008 rounded to the nearest hundredth is _____.

Fill in the blanks.

16. The length of a piece of rope is 3.458 meters.
Round the length to the nearest hundredth of a meter.

3.458 meters rounds to _____ meters.

17. The mass of a dog is 12.015 kilograms.
Round the mass to two decimal places.

_____ kilograms rounds to _____ kilograms.

18. The volume of milk in a carton is 2.295 liters.
Round the volume to the nearest hundredth of a liter.

_____ liters rounds to _____ liters.

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

19.

Decimal	Rounded to the Nearest		
	Whole Number	Tenth	Hundredth
2.768			
3.184			
0.476			
8.695			

Fill in the blanks.

- 20.** A decimal rounded to the nearest tenth is 1.5.
Write two decimals that can be rounded to 1.5.

_____ and _____

- 21.** A decimal rounded to the nearest hundredth is 4.26.
Write two decimals that can be rounded to 4.26.

_____ and _____

- 22.** A decimal rounded to the nearest hundredth is 8.03.
The decimal is greater than 8.03.

What could this decimal be? _____

- 23.** A decimal rounded to the nearest hundredth is 7.91.
The decimal is less than 7.91.

What could this decimal be? _____

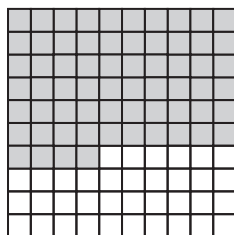
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Lesson 8.3 Rewriting Decimals as Fractions and Mixed Numbers

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

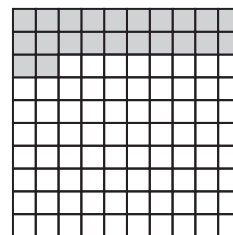
1.



$$0.64 = \frac{64}{100}$$

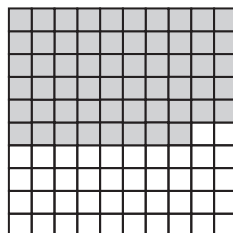
= _____

2.



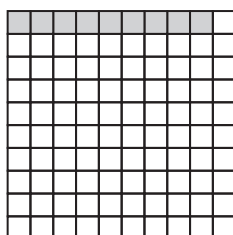
$$1.22 = \underline{\hspace{2cm}}$$

3.



$$2.58 = \underline{\hspace{2cm}}$$

4.

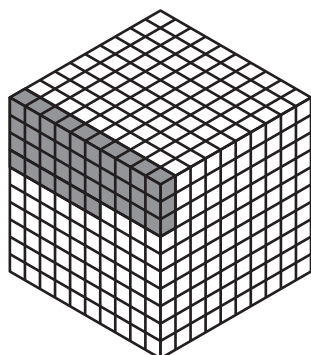


$$3.09 = \underline{\hspace{2cm}}$$

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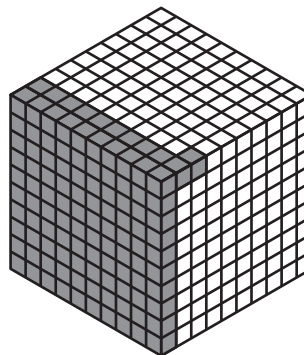
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5.



$$0.036 = \underline{\hspace{2cm}}$$

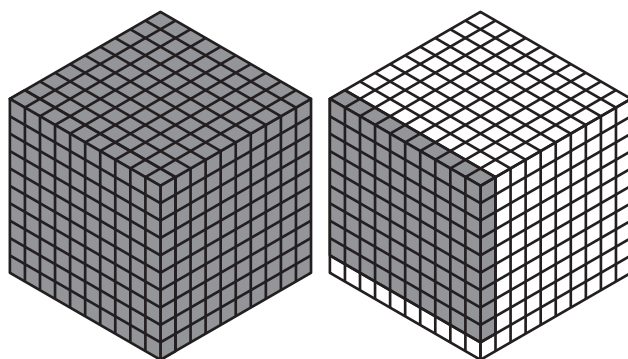
6.



$$0.111 = \underline{\hspace{2cm}}$$

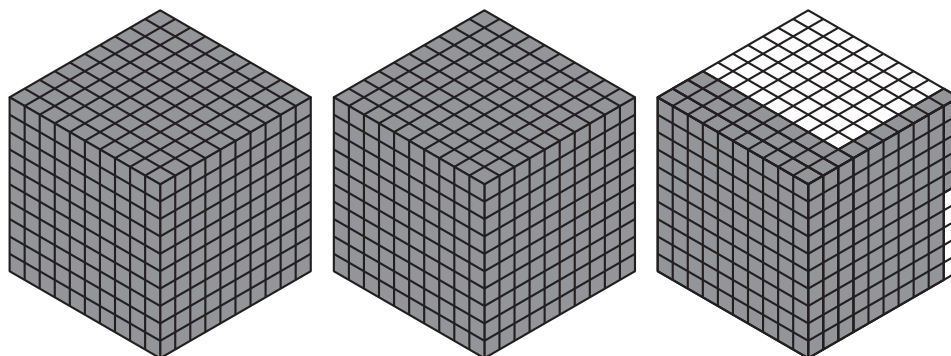
Rewrite each decimal as a fraction or mixed number in simplest form.

7.



$$1.090 = \underline{\hspace{2cm}}$$

8.



$$2.365 = \underline{\hspace{2cm}}$$

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

9. $2.64 = \underline{\hspace{2cm}}$

10. $5.75 = \underline{\hspace{2cm}}$

11. $7.008 = \underline{\hspace{2cm}}$

12. $10.357 = \underline{\hspace{2cm}}$

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Put on Your Thinking Cap!

Write your answer in the space given.

1. How many hundredths are there in 0.58? _____
2. How many hundredths are there in 2.09? _____
3. How many hundredths are there in 4.02? _____
4. How many thousandths are there in 2.067? _____
5. How many thousandths are there in 3.504? _____
6. How many thousandths are there in 0.953? _____

Round 16.997 to the nearest:

7. whole number _____
8. tenth _____
9. hundredth _____

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Continue each number pattern.

10. 5.28, 5.58, 6.18, 7.08, 8.28,

+0.3 +0.6 +0.9 +1.2 +1.5

11. 1.25, 1.50, 2.00, 2.75, 3.75,

+0.25 +0.5 +0.75 +1.0 +1.25

12. 20.55, 20.3, 19.8, 19.05, 18.05,

-0.25 -0.5 -0.75 -1.0 -1.25

13. 1.5, 2.7, 4.7, 7.5, 11.1,

+1.2 +2.0 +2.8 +3.6 +4.4

+0.8 +0.8 +0.8 +0.8

14. 5.6, 7.4, 9.9, 13.1, 17.0,

+1.8 +2.5 +3.2 +3.9 +4.6

+0.7 +0.7 +0.7 +0.7