

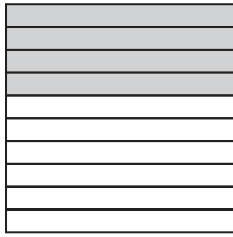
CHAPTER  
7

# Decimals

## Lesson 7.1 Understanding Tenths

Write the decimals that the shaded and unshaded parts represent.

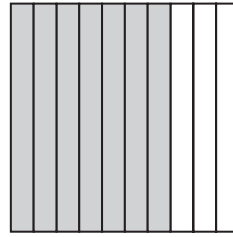
1.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

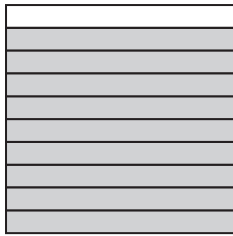
2.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

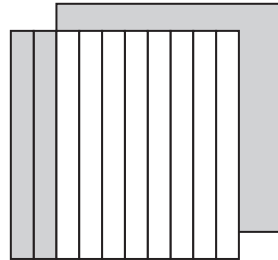
3.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

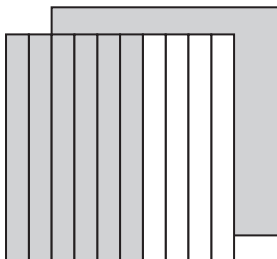
4.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

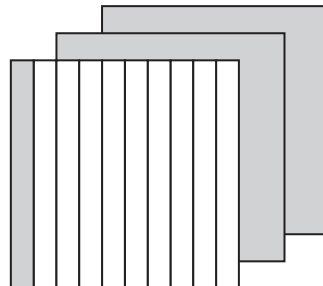
5.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

6.



shaded parts: \_\_\_\_\_

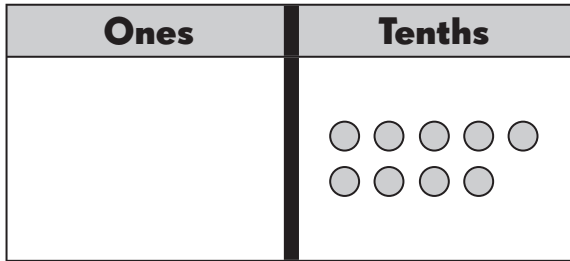
unshaded parts: \_\_\_\_\_

Name: \_\_\_\_\_

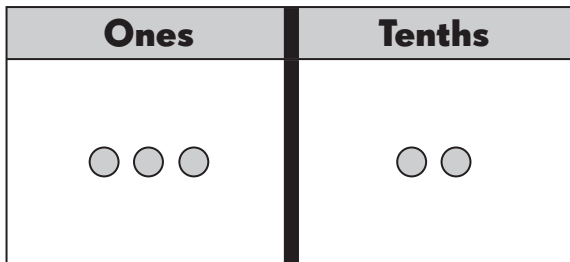
Date: \_\_\_\_\_

**Write a decimal for each place-value chart.**

7.

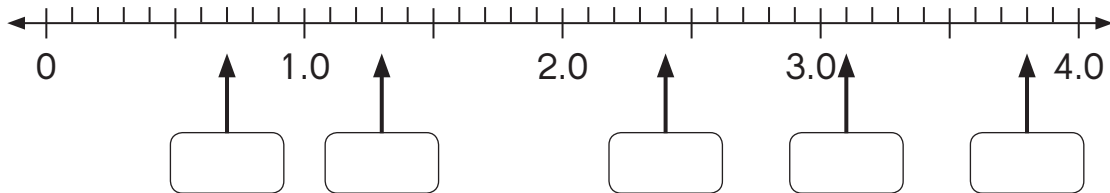


8.

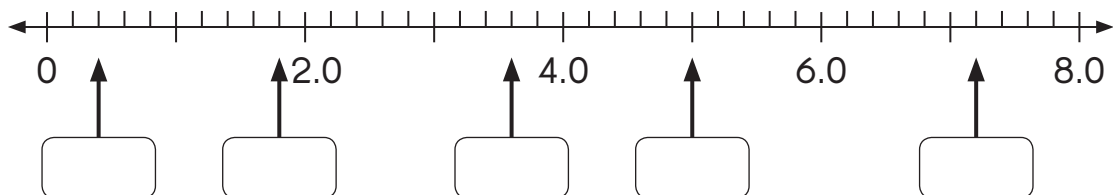


**Write the correct decimal in each box.**

9.



10.



Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Write each of these as a decimal.**

**11.** 4 tenths = \_\_\_\_\_

**12.** 25 tenths = \_\_\_\_\_

**13.** 68 tenths = \_\_\_\_\_

**14.** 176 tenths = \_\_\_\_\_

**15.** 3 ones and 9 tenths = \_\_\_\_\_

**16.** 40 ones and 2 tenths = \_\_\_\_\_

**Write each fraction or mixed number as a decimal.**

**17.**  $\frac{6}{10} =$  \_\_\_\_\_

**18.**  $\frac{9}{10} =$  \_\_\_\_\_

**19.**  $4\frac{8}{10} =$  \_\_\_\_\_

**20.**  $7\frac{2}{10} =$  \_\_\_\_\_

**21.**  $16\frac{1}{10} =$  \_\_\_\_\_

**22.**  $44\frac{5}{10} =$  \_\_\_\_\_

**23.**  $\frac{63}{10} =$  \_\_\_\_\_

**24.**  $\frac{50}{10} =$  \_\_\_\_\_

**25.**  $\frac{210}{10} =$  \_\_\_\_\_

**26.**  $\frac{201}{10} =$  \_\_\_\_\_

**27.**  $\frac{300}{10} =$  \_\_\_\_\_

**28.**  $\frac{330}{10} =$  \_\_\_\_\_

Name: \_\_\_\_\_

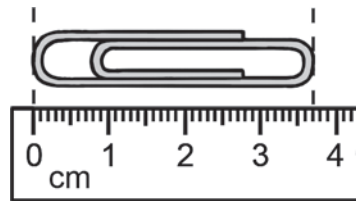
Date: \_\_\_\_\_

**Write each number as a fraction and as a decimal.  
Complete the table.**

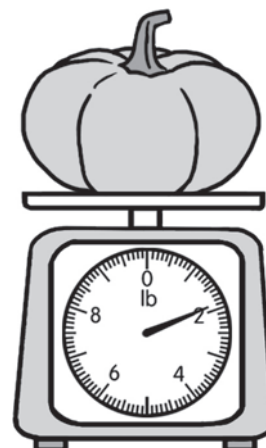
	<b>Number of Tenths</b>	<b>Fraction</b>	<b>Decimal</b>
<b>29.</b>	6 tenths		
<b>30.</b>	19 tenths		
<b>31.</b>	57 tenths		
<b>32.</b>	124 tenths		
<b>33.</b>	203 tenths		
<b>34.</b>	455 tenths		

**Write a fraction and a decimal for each measure.**

**35.** Length of paper clip =  cm  
=  cm



**36.** Weight of pumpkin =  lb  
=  lb

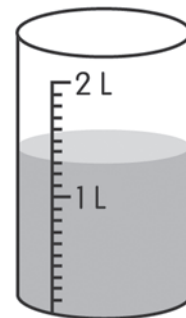


Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Write a fraction and a decimal for the measure.**

37. Volume of water =  L  
=  L



**Fill in the blanks.**

38.  $8.9 = 8$  ones and \_\_\_\_\_ tenths

39.  $16.4 = 1$  ten \_\_\_\_\_ ones and 4 tenths

40.  $37.2 = 3$  tens 7 ones and \_\_\_\_\_ tenths

41.  $58.6 =$  \_\_\_\_\_ tens 8 ones and 6 tenths

42.  $90.5 =$  \_\_\_\_\_ tens \_\_\_\_\_ ones and 5 tenths

**15.2 can be written as  $10 + 5 + \frac{2}{10}$ . Complete in the same way.**

43.  $5.2 =$   +

44.  $16.3 =$   +  +

**14.3 can be written as  $10 + 4 + 0.3$ . Complete in the same way.**

45.  $8.4 =$   +

46.  $70.9 =$   +  +

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Fill in the blanks.**

**47.**

Tens	Ones	Tenths
2	4	7

The digit 7 is in the \_\_\_\_\_ place. Its value is \_\_\_\_\_.

**48.**

Tens	Ones	Tenths
3	8	5

The digit 8 is in the \_\_\_\_\_ place. Its value is \_\_\_\_\_.

**49.**

Tens	Ones	Tenths
6	0	9

The digit \_\_\_\_\_ is in the tens place. Its value is \_\_\_\_\_.

**50.**

Tens	Ones	Tenths
8	1	4

The digit \_\_\_\_\_ is in the tenths place. Its value is \_\_\_\_\_.

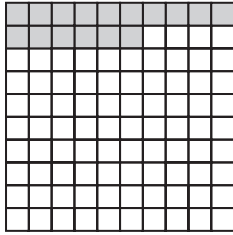
Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 7.2 Understanding Hundredths

Write the decimals that the shaded and unshaded parts represent.

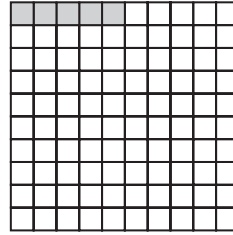
1.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

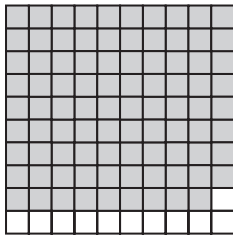
2.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

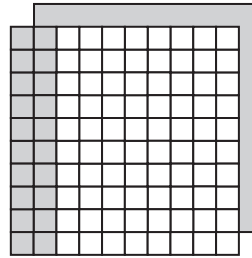
3.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

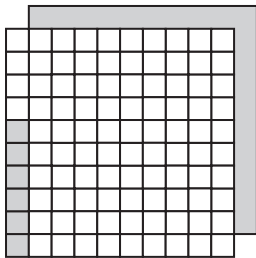
4.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

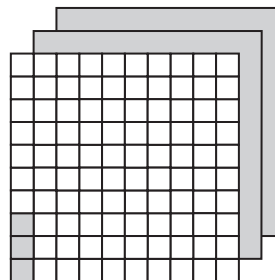
5.



shaded parts: \_\_\_\_\_

unshaded parts: \_\_\_\_\_

6.



shaded parts: \_\_\_\_\_

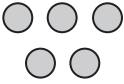

unshaded parts: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_


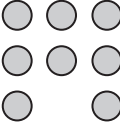
Write a decimal for each place-value chart.

7.

Ones	Tenths	Hundredths
		

\_\_\_\_\_

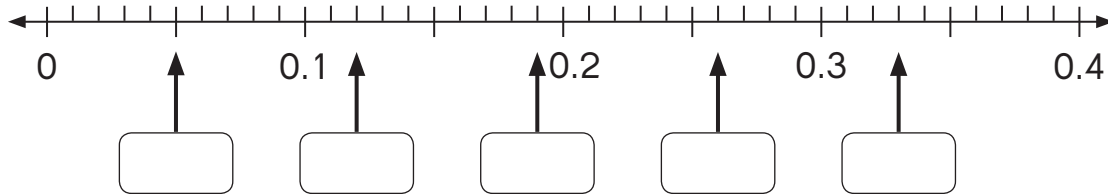
8.

Ones	Tenths	Hundredths
		

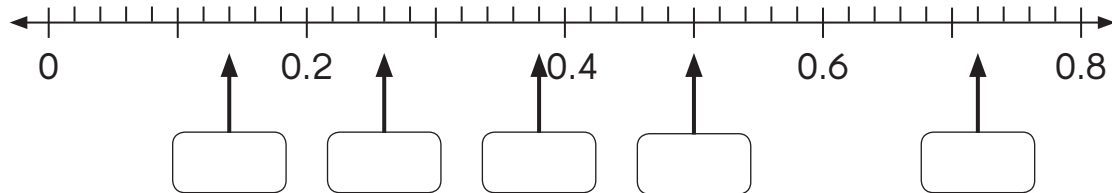
\_\_\_\_\_

Write the correct decimal in each box.

9.



10.





Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Write each of these as a decimal.**

11. 9 hundredths = \_\_\_\_\_

12. 10 hundredths = \_\_\_\_\_

13. 35 hundredths = \_\_\_\_\_

14. 206 hundredths = \_\_\_\_\_

15. 8 tenths 6 hundredths = \_\_\_\_\_

16. 41 ones and 3 hundredths = \_\_\_\_\_

17. 50 ones and 22 hundredths = \_\_\_\_\_

**Write each fraction or mixed number as a decimal.**

18.  $\frac{4}{100} =$  \_\_\_\_\_

19.  $\frac{19}{100} =$  \_\_\_\_\_

20.  $\frac{65}{100} =$  \_\_\_\_\_

21.  $\frac{80}{100} =$  \_\_\_\_\_

22.  $2\frac{14}{100} =$  \_\_\_\_\_

23.  $15\frac{3}{100} =$  \_\_\_\_\_

24.  $30\frac{8}{100} =$  \_\_\_\_\_

25.  $\frac{169}{100} =$  \_\_\_\_\_

26.  $\frac{202}{100} =$  \_\_\_\_\_

27.  $\frac{250}{100} =$  \_\_\_\_\_

**Write each decimal in hundredths.**

28. 0.08 = \_\_\_\_\_ hundredths

29. 0.25 = \_\_\_\_\_ hundredths

30. 0.40 = \_\_\_\_\_ hundredths

31. 6.07 = \_\_\_\_\_ hundredths

32. 5.39 = \_\_\_\_\_ hundredths

33. 9.80 = \_\_\_\_\_ hundredths

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Write each number as a fraction and as a decimal.  
Complete the table.**

	<b>Number of Hundredths</b>	<b>Fraction</b>	<b>Decimal</b>
<b>34.</b>	1 hundredth		
<b>35.</b>	6 hundredths		
<b>36.</b>	9 hundredths		
<b>37.</b>	13 hundredths		
<b>38.</b>	59 hundredths		
<b>39.</b>	106 hundredths		

**Fill in the blanks.**

**40.**  $0.75 =$  \_\_\_\_\_ tenths \_\_\_\_\_ hundredths

**41.**  $3.46 = 3$  \_\_\_\_\_ and 4 tenths \_\_\_\_\_ hundredths

**42.**  $5.08 = 5$  ones and \_\_\_\_\_ hundredths

**43.**  $6.23 =$  \_\_\_\_\_ ones and \_\_\_\_\_ tenths \_\_\_\_\_ hundredths

**44.**  $9.50 =$  \_\_\_\_\_ ones and \_\_\_\_\_ tenths \_\_\_\_\_ hundredths

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**6.13 can be written as  $6 + \frac{1}{10} + \frac{3}{100}$ . Complete in the same way.**

**45.**  $1.56 = \square + \square + \square$

**46.**  $24.07 = \square + \square + \square + \square$

**7.45 can be written as  $7 + 0.4 + 0.05$ . Complete in the same way.**

**47.**  $3.89 = \square + \square + \square$

**48.**  $51.52 = \square + \square + \square + \square$

**Fill in the blanks.**

**49.**

Ones	Tenths	Hundredths
4	8	3

The digit 3 is in the \_\_\_\_\_ place. Its value is \_\_\_\_\_.

**50.**

Ones	Tenths	Hundredths
7	0	9

The digit 0 is in the \_\_\_\_\_ place. Its value is \_\_\_\_\_.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

51.

Tens	Ones	Tenths	Hundredths
6	1	5	5

The digit \_\_\_\_\_ is in the tens place. Its value is \_\_\_\_\_.

52.

Tens	Ones	Tenths	Hundredths
3	4	0	2

The digit \_\_\_\_\_ is in the hundredths place. Its value is \_\_\_\_\_.

**Write each amount in decimal form.**

53. 35 cents = \$\_\_\_\_\_

54. 70 cents = \$\_\_\_\_\_

55. 108 cents = \$\_\_\_\_\_

56. 240 cents = \$\_\_\_\_\_

57. 6 dollars 35 cents = \$\_\_\_\_\_

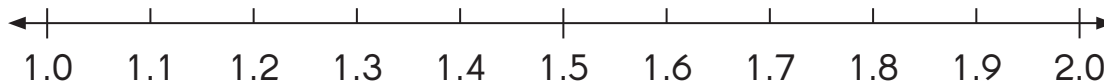
58. 9 dollars 5 cents = \$\_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

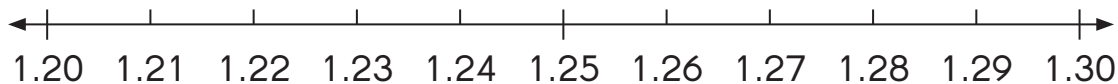
## Lesson 7.3 Comparing Decimals (Part 1)

Use the number line. Find the number that is



1. 0.1 more than 1.9. \_\_\_\_\_
2. 0.3 more than 1.1. \_\_\_\_\_
3. 0.5 more than 1.4. \_\_\_\_\_
4. 0.4 less than 1.6. \_\_\_\_\_
5. 0.2 less than 1.8. \_\_\_\_\_

Use the number line. Find the number that is



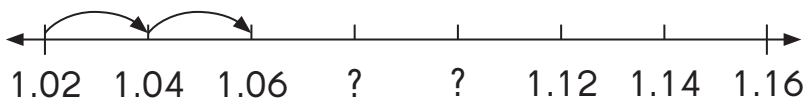
6. 0.01 more than 1.26. \_\_\_\_\_
7. 0.02 more than 1.23. \_\_\_\_\_
8. 0.05 more than 1.24. \_\_\_\_\_
9. 0.03 less than 1.26. \_\_\_\_\_
10. 0.04 less than 1.25. \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

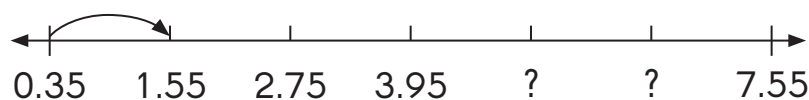
**Continue the number patterns.  
Use the number line to help you.**

11.



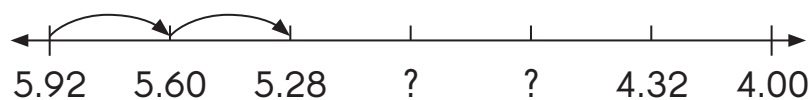
1.02 1.04 1.06 \_\_\_\_\_

12.



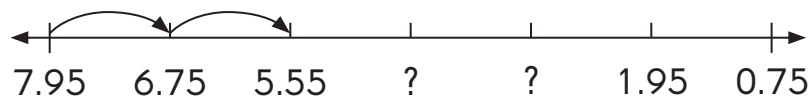
0.35 1.55 2.75 3.95 \_\_\_\_\_

13.



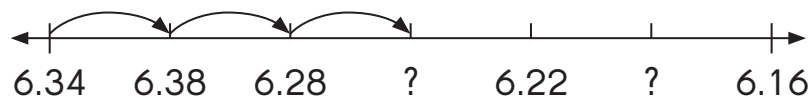
5.92 5.60 5.28 \_\_\_\_\_

14.



7.95 6.75 5.55 \_\_\_\_\_

15.



6.34 6.38 6.28 \_\_\_\_\_ 6.22 \_\_\_\_\_ 6.16

## Lesson 7.3 Comparing Decimals (Part 2)

Compare the two decimals in each table. Then fill in the blanks.

1.

Ones	Tenths	Hundredths
2	0	3
2	0	6

\_\_\_\_\_ is greater than \_\_\_\_\_.

2.

Ones	Tenths	Hundredths
0	3	5
0	3	2

\_\_\_\_\_ is less than \_\_\_\_\_.

3.

Ones	Tenths	Hundredths
8	2	3
8	3	2

\_\_\_\_\_ is greater than \_\_\_\_\_.

4.

Ones	Tenths	Hundredths
0	0	9
0	9	0

\_\_\_\_\_ is less than \_\_\_\_\_.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Compare. Write < or >.**

5. 0.58 ○ 0.85

6. 0.07 ○ 0.09

7. 3.36 ○ 3.63

8. 2.10 ○ 2.01

**Circle the greatest decimal and underline the least.**

9. 0.45    0.15    0.54

10. 7.68    7.86    6.78

**Write the decimals in order from least to greatest.**

11. 0.86    0.82    0.68    \_\_\_\_\_

12. 0.98    0.99    0.89    \_\_\_\_\_

13. 0.75    0.57    0.70    \_\_\_\_\_

14. 5.46    6.54    5.64    \_\_\_\_\_

**Write the decimals in order from greatest to least.**

15. 0.10    0.09    0.07    \_\_\_\_\_

16. 0.99    0.09    0.90    \_\_\_\_\_

17. 0.38    0.83    3.08    \_\_\_\_\_

18. 8.49    9.48    8.94    \_\_\_\_\_



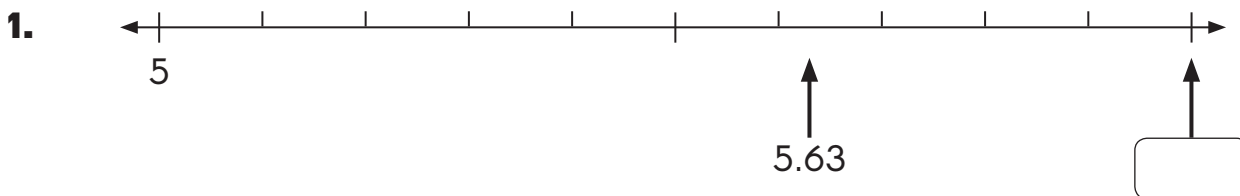
Name: \_\_\_\_\_

Date: \_\_\_\_\_

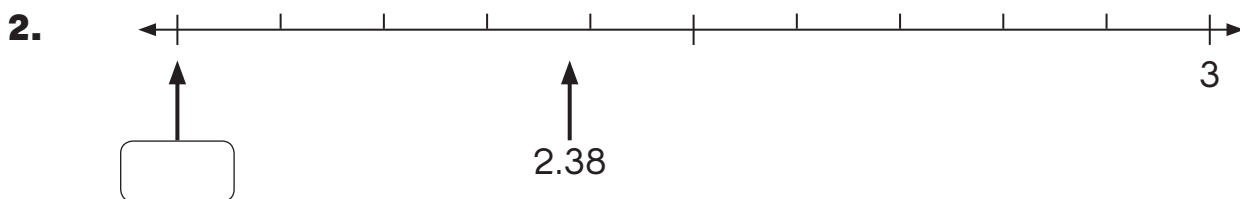
## Lesson 7.4 Rounding Decimals (Part 1)

Fill in the missing number in each box.

Then round each decimal to the nearest whole number.

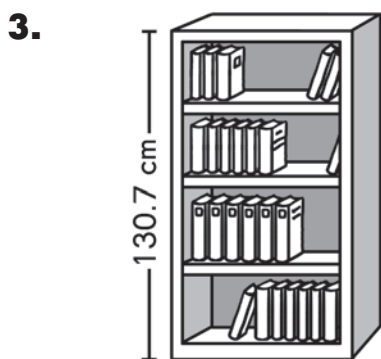


5.63 rounded to the nearest whole number is \_\_\_\_\_.



2.38 rounded to the nearest whole number is \_\_\_\_\_.

**Round each measure.**



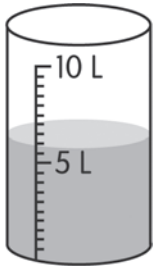
Round the height of the cabinet to the nearest centimeter.

\_\_\_\_\_ centimeters is about \_\_\_\_\_ centimeters.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

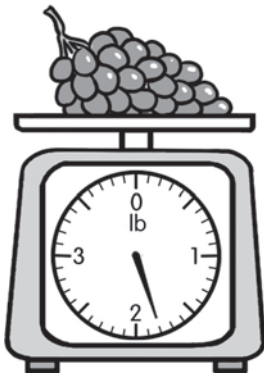
4.



Round the amount of water to the nearest liter.

\_\_\_\_\_ liters is about \_\_\_\_\_ liters.

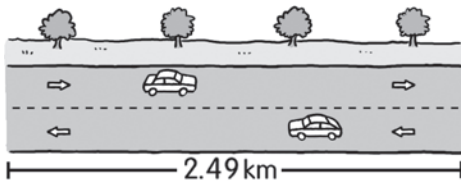
5.



Round the weight of the grapes to the nearest pound.

\_\_\_\_\_ pounds is about \_\_\_\_\_ pounds.

6.



Round the length of the road to the nearest kilometer.

\_\_\_\_\_ kilometers is about \_\_\_\_\_ kilometers.

7.

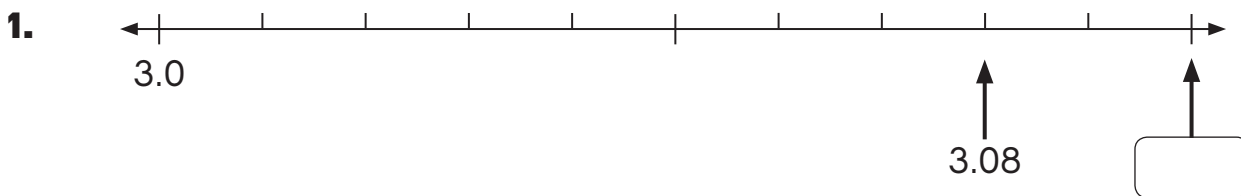


Round the price of the sneakers to the nearest dollar.

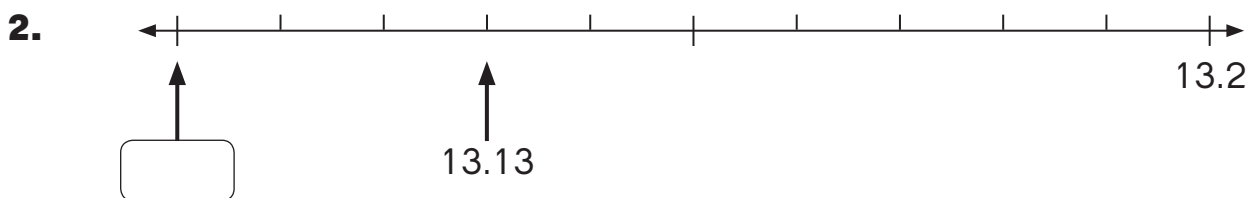
\$\_\_\_\_\_ is about \_\_\_\_\_ dollars.

## Lesson 7.4 Rounding Decimals (Part 2)

Fill in the missing number in each box. Then round each decimal to the nearest tenth.



3.08 rounded to the nearest tenth is \_\_\_\_\_.



13.13 rounded to the nearest tenth is \_\_\_\_\_.

### Round each measure.

3. The weight of a kitten is 2.05 pounds.  
Round the weight of the kitten to the nearest tenth of a pound.

2.05 pounds is about \_\_\_\_\_ pounds.

4. The length of a bed is 1.34 meters.  
Round the length of the bed to the nearest tenth of a meter.

\_\_\_\_\_ meters is about \_\_\_\_\_ meters.

5. Cedar Highway is 15.59 kilometers long.  
Round the length of the highway to the nearest tenth of a kilometer.

\_\_\_\_\_ kilometers is about \_\_\_\_\_ kilometers.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

6. The volume of water in a jug is 3.46 liters.  
Round the volume of water to the nearest liter.

\_\_\_\_\_ liters is about \_\_\_\_\_ liters.

7. Jason's weight is 96.52 pounds.  
Round Jason's weight to the nearest pound.

\_\_\_\_\_ pounds is about \_\_\_\_\_ pounds.

**Round each decimal to the nearest whole number and then to the nearest tenth.**

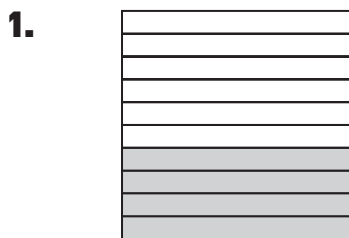
	Decimal	Rounded to the nearest	
		Whole Number	Tenth
8.	0.67		
9.	1.28		
10.	3.06		
11.	8.73		
12.	19.45		
13.	23.99		
14.	36.24		
15.	41.99		

Name: \_\_\_\_\_

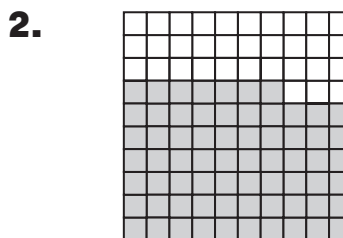
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## Lesson 7.5 Fractions and Decimals

Write each fraction or mixed number as a decimal.



$$\frac{4}{10} = \underline{\hspace{2cm}}$$



$$\frac{67}{100} = \underline{\hspace{2cm}}$$

3.  $\frac{3}{10} = \underline{\hspace{2cm}}$

4.  $\frac{49}{100} = \underline{\hspace{2cm}}$

5.  $5\frac{9}{10} = \underline{\hspace{2cm}}$

6.  $8\frac{79}{100} = \underline{\hspace{2cm}}$

Write each fraction or mixed number as a decimal.

Hint: Make the denominator 10 or 100.

7.  $\frac{1}{5} = \frac{\square}{10} = \underline{\hspace{2cm}}$

8.  $\frac{19}{50} = \frac{\square}{100} = \underline{\hspace{2cm}}$

9.  $\frac{4}{5} = \underline{\hspace{2cm}}$

10.  $\frac{1}{2} = \underline{\hspace{2cm}}$

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**Write each fraction or mixed number as a decimal.**

**Hint: Make the denominator 10 or 100.**

11.  $\frac{7}{4} =$  \_\_\_\_\_

12.  $\frac{6}{20} =$  \_\_\_\_\_

13.  $\frac{16}{25} =$  \_\_\_\_\_

14.  $7\frac{1}{5} =$  \_\_\_\_\_

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

15.  $0.6 =$  \_\_\_\_\_

16.  $5.7 =$  \_\_\_\_\_

17.  $1.45 =$  \_\_\_\_\_

18.  $3.36 =$  \_\_\_\_\_

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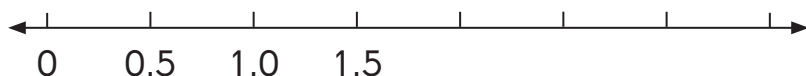
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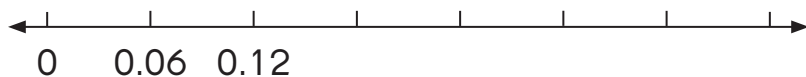
## Put on Your Thinking Cap!

Mark an **X** to show where each decimal is located on the number line.

1. 3.0



2. 0.24



Write any number that is

3. greater than 5.3 but less than 5.4. \_\_\_\_\_

4. greater than 0.4 but less than 0.5. \_\_\_\_\_

5. greater than 3.85 but less than 3.95. \_\_\_\_\_

Answer the questions.

6. How many tenths are in 8.32? \_\_\_\_\_ tenths

7. How many tenths are in 25.80? \_\_\_\_\_ tenths

8. How many tenths are in 37.00? \_\_\_\_\_ tenths

9. How many hundredths are in 0.56? \_\_\_\_\_ hundredths

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**Answer the questions.**

**10.** How many hundredths are in 1.82? \_\_\_\_\_ hundredths

**11.** How many hundredths are in 3.94? \_\_\_\_\_ hundredths

**12.** Round 8.99 to the nearest

**a.** whole number. \_\_\_\_\_

**b.** tenth. \_\_\_\_\_

**Continue the number patterns.**

**13.** 1.98 4.18 6.38 8.58 10.78 \_\_\_\_\_

**14.** 1.8 1.76 1.72 1.68 1.64 \_\_\_\_\_

**15.** 1.2 1.7 2.7 4.2 6.2 \_\_\_\_\_

**16.** 3.7 3.5 3.1 2.5 1.7 \_\_\_\_\_

**17.** 1.68 1.69 1.70 1.68 1.66 1.67 \_\_\_\_\_

**18.** 4.92 4.62 4.02 3.12 1.92 \_\_\_\_\_

**19.** 6.38 5.98 7.38 6.58 9.38 8.18 \_\_\_\_\_