



Tenths, Hundredths, and Thousandths

You remember that tenths and hundredths can be written as common fractions or as **decimal** fractions.

$$\frac{2}{10} = 0.2$$

two **tenths**

$$\frac{2}{100} = 0.02$$

two **hundredths**

Mixed numbers in tenths or hundredths can also be written both ways.

$$1\frac{5}{10} = 1.5$$

one and five **tenths**

$$2\frac{65}{100} = 2.65$$

two and sixty-five **hundredths**

Thousandths, ten thousandths, hundred thousandths, and so on, can also be written as common fractions or decimal fractions.

$$\frac{365}{1,000} = 0.365$$

three hundred sixty-five **thousandths**

$$5\frac{16}{10,000} = 5.0016$$

five and sixteen **ten thousandths**

$$4\frac{28,542}{100,000} = 4.28542$$

four and twenty-eight thousand, five hundred forty-two **hundred thousandths**

You can see that it is more efficient to work with decimals than with fractions that are this complicated—especially when we need to add, subtract, or multiply them! This year you will work mostly with decimal tenths, hundredths, and thousandths.

Tenths have **one digit**
after the decimal point.

five **tenths**

0.5

four and one **tenth**

4.1

Hundredths have **two digits**
after the decimal point.

two and six **hundredths**

2.06

fifteen **hundredths**

0.15

Thousandths have **three digits** after the decimal point.

three hundred eight **thousandths**
0.308

one and five **thousandths**
1.005

Zeros hold places that have no other digit.

0.308
1.005

Match.

- | | |
|---------------------|---------------------|
| 1. ____ tenths | a. 3 decimal places |
| 2. ____ hundredths | b. 1 decimal place |
| 3. ____ thousandths | c. 2 decimal places |

Romania is the 12th largest country in Europe.

Write the decimal for each fraction and mixed number.

- | | | |
|---------------------------------|----------------------------|------------------------------|
| 4. a. $\frac{3}{10}$ _____ | b. $1\frac{31}{100}$ _____ | c. $6\frac{35}{1,000}$ _____ |
| 5. a. $\frac{185}{1,000}$ _____ | b. $\frac{45}{100}$ _____ | c. $5\frac{2}{10}$ _____ |

Write a fraction or mixed number for each decimal.

- | | | |
|------------------|---------------|---------------|
| 6. a. 0.3 _____ | b. 5.29 _____ | c. 0.25 _____ |
| 7. a. 0.08 _____ | b. 0.7 _____ | c. 8.2 _____ |

△ **Read these numbers to your teacher.**

543,834,927 509,670,000 464,000,083 5,400,000 8.4 0.15 $\frac{1}{4}$



We Remember

Round to the nearest whole number.

8. a. 21.095 _____ b. 9.751 _____ c. 13.19 _____ d. 39.5 _____

Lesson 2

+ **-** **x** Skill Builders

9. a.
$$\begin{array}{r} 582,009,000 \\ - 14,320,111 \\ \hline \end{array}$$

b. $8 \overline{)96}$

c.
$$\begin{array}{r} 365 \\ \times 278 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 5\frac{1}{15} \\ 2\frac{4}{15} \\ + \frac{7}{15} \\ \hline \end{array}$$

Write < or > .



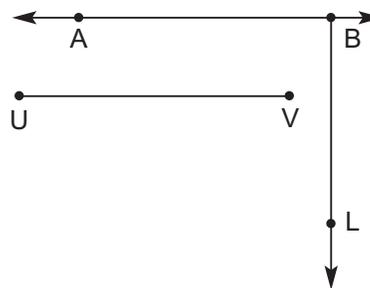
10. a. $6 \square 16$

b. $-6 \square -16$

c. $-3 \square 2$

d. $10 \square -12$

Use letters and symbols to write the names.



11. line segment _____

12. ray _____

13. line _____

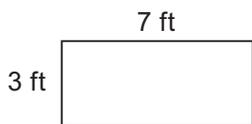
Write parallel, perpendicular, or intersect.

14. \overleftrightarrow{AB} and \overleftrightarrow{BL} _____ and are _____ to each other.

15. \overline{UV} is _____ to \overleftrightarrow{AB} .

Find the area of each shape. Label your answers in square units.

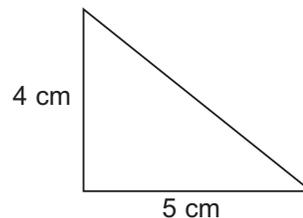
When all sides are the same, only one side will be labeled.



16. a. _____



b. _____



c. _____

Write the ratio.

17. Each cow at Nathaniel Orphanage eats about 30 lbs of silage and 15 lbs of grain in one day. What is the ratio of silage to grain? _____



18. Ramona's tata makes 90,000 lei (Romanian money) a day. How many lei does he make in a week if he works at the factory 5 days a week?

Answer: _____



19. The famous Danube River flows 1,450 kilometers to reach the country of Romania. The river continues for another 1,400 kilometers through Romania before emptying into the Black Sea. How long is the Danube River?

Answer: _____



Write these as one-place decimals.

20. a. 2.50 _____ b. 0.30 _____

Write these as two-place decimals.

21. a. 0.6 _____ b. 3.8 _____

Round to the nearest ten.

22. a. 58 _____ b. 195 _____ c. 3,649 _____

Round to the nearest hundred.

23. a. 1,495 _____ b. 2,936 _____ c. 759 _____

Estimate.

24. a. estimate 685×243 b. estimate 49×57
 _____ \times _____ = _____ _____ \times _____ = _____

Write a fraction or mixed number for each decimal.

Write a decimal for each fraction or mixed number.

25. a. $\frac{5}{10}$ _____ b. $2\frac{51}{100}$ _____ c. $4\frac{125}{1000}$ _____

26. a. 2.9 _____ b. 3.09 _____ c. 0.2 _____



Decimals and Place Value

thousands hundreds tens ones tenths hundredths thousandths
 5 , 2 0 6 . 8 9 7

“five thousand, two hundred six **and** eight hundred ninety-seven **thousandths**”

Each digit of this number has a place value. Notice that on either side of the ones column, the place values run in opposite directions.

We use **s** at the end of the whole number place values to the **left** of the decimal point:

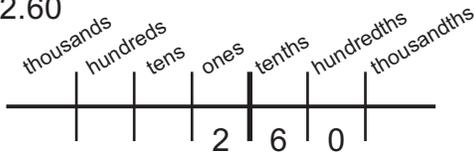
ones tens hundreds thousands

We use **ths** at the end of the decimal place values to the **right** of the decimal point:

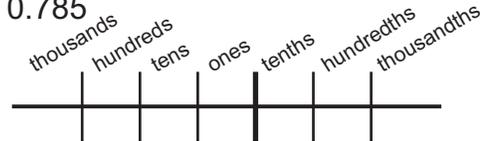
tenths hundredths thousandths

Write the digits from each number in the place-value chart. The first one is done for you.

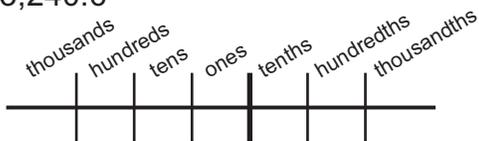
1. a. 2.60



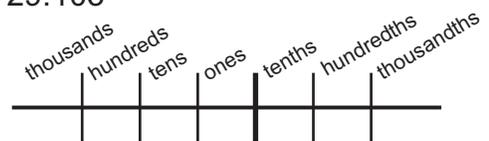
b. 0.785



2. a. 3,240.6



b. 29.103



Write place-value names.

- The first place to the left of the decimal point is _____.
- The third place to the right of the decimal point is _____.
- The fourth place to the left of the decimal point is _____.

Follow the directions to write the number.

6. _____, _____ . _____

Write 4 in the thousandths place.

Write 0 in the hundredths place.

Write 2 in the ones place.

Write 8 in the tens place.

Write 1 in the tenths place.

Write 6 in the thousands place.

Write 5 in the hundreds place.

Name the place value of the 7 in each number.

7. a. 7,468.1 _____

b. 7.006 _____

8. a. 459.607 _____

b. 530.07 _____



We Remember

Write a fraction or mixed number for each decimal.

Write a decimal for each fraction or mixed number.

9. a. $\frac{35}{100}$ _____

b. $\frac{265}{1000}$ _____

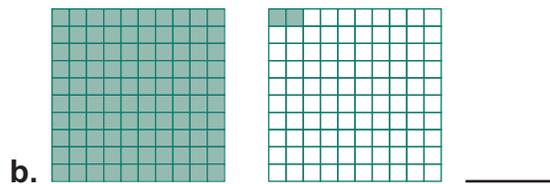
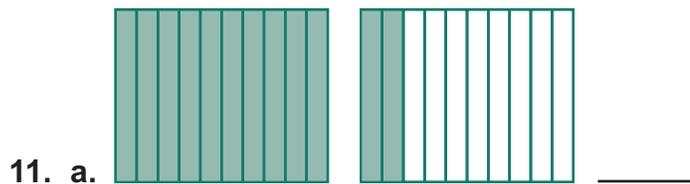
c. $6\frac{3}{10}$ _____

10. a. 0.5 _____

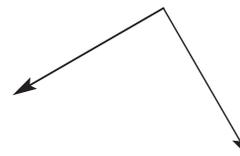
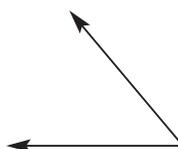
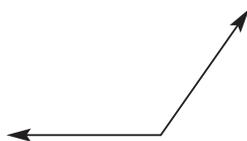
b. 0.21 _____

c. 0.06 _____

Write the decimal for each picture.



Write acute, right, or obtuse for each angle.



12. a. _____

b. _____

c. _____

Lesson 3

— \div \times Skill Builders —

$$6\frac{5}{12}$$

Write the remainder as a fraction.

Check by multiplying.

13. a. $\underline{-5\frac{1}{12}}$

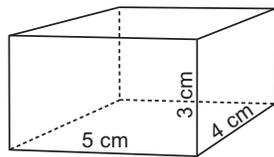
b. $2\overline{)57}$

c. $\begin{array}{r} \$35.89 \\ \times \quad 3 \\ \hline \end{array}$

d. $\begin{array}{r} 67 \\ \times 47 \\ \hline \end{array}$

Write the volume in cubic centimeters.

14. _____

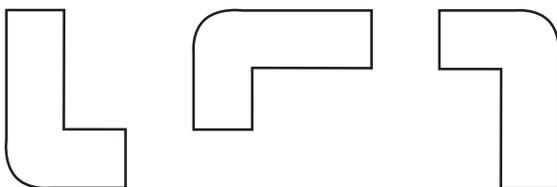


15. The Hanganu (hän gä' nü) family grows grapes in the courtyard. Mrs. Hanganu picked 7 bunches of grapes for making grape juice. If each bunch has 55 grapes, how many grapes are on the 7 bunches?

Answer: _____

Continue the pattern of the rolling figure.

☆ 16.



Round to the nearest dollar.

17. a. \$36.12 _____

b. \$16.94 _____

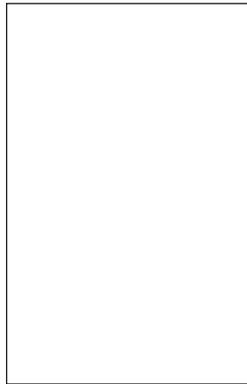
c. \$24.55 _____

Underline the correct answer.

18. If it is a fifteen-minute car ride to Oravita, and a fifteen-minute walk to the nearest lake, then Heather lives closer to **the lake, Oravita.**

Copy and solve.

19. $5.3 + 29.5 + 32.1 + 8.9$



To shop in Romania, you must understand large numbers. The leu (l \ddot{u}) is the monetary unit in Romania. The plural form of this word is lei (l \bar{a}).

There are 500-lei coins, 1,000-lei coins, and 5,000-lei coins. The paper money starts at 2,000 lei. There are also 10,000-lei notes, 20,000-lei notes, 50,000-lei notes, 100,000-lei notes, 500,000-lei notes and 1,000,000-lei notes.

Write these numbers.

20. Four and seven tenths (decimal) _____

21. Six million, two hundred seven thousand, five hundred thirty-eight _____

Order these decimal numbers from least to greatest.

22. 0.39 1.32 0.93 0.83 _____ _____ _____ _____

23. 3.2 1.5 3.4 _____ _____ _____

Name the place value of the 4 in each number.

24. a. 7,408.1 _____

b. 9.234 _____

25. a. 574.639 _____

b. 5.418 _____