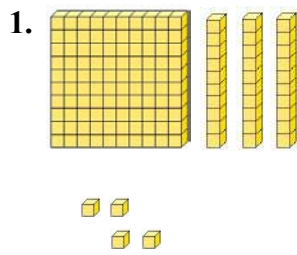


Lesson 21T ~ Place Value with Decimals

Name _____ Period _____ Date _____

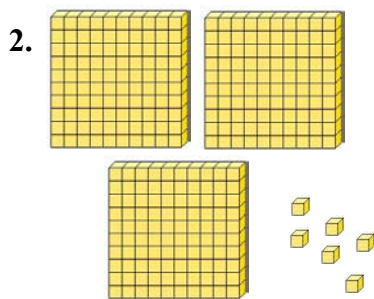
Fill in the place-value chart. Write the decimal that each base-ten block group represents.



1	0.1	0.01
Ones	Tenths	Hundredths

and

- Fill in the place-value chart with the amount of ones, tenths and hundredths shown by the base-ten blocks.
- Using words, write the number that is before the decimal point on the blank to the left of “and”.
- Using words, write the entire number that is after the decimal point on the blank to the right of “and”. (Example: .14 would be written *fourteen*)
- The last digit is in the _____ place.
- Add the word from **part d** to the end of the blank to the right of “and”.



	0.1	
Ones	Tenths	Hundredths

Circle the word that tells the place where the digit 5 is in each decimal.

3. 25.346

- A. ones B. tenths
C. hundredths D. thousandths

4. 4.537

- A. ones B. tenths
C. hundredths D. thousandths

Write the value of the underlined digit in each decimal.

5. 1.607

a. Which number is underlined? _____

b. What is the place represented by the underlined digit? _____

c. Write your answer as **part a** **part b**. _____

6. 17.239 _____

7. 4.37 _____

Write a decimal to match each word form.

8. Six and two tenths _____

9. Ten and thirty-five hundredths _____

10. Eleven and two hundred forty-three thousandths _____

Write each decimal in word form.

11. 4.7 _____

12. 2.12 _____

13. 5.604 _____

Lesson 22T ~ Rounding Decimals

Name _____ Period _____ Date _____

ROUNDING DECIMALS

1. Underline the digit to which you will round.
2. Look at the digit to the right of the underlined digit.
 - If the digit is 4 or less, the underlined numeral stays the same.
 - If the digit is 5 or greater, add one to the underlined digit.
3. Rewrite the decimal. Stop after writing the rounded digit.

Round each number to the nearest one.

1. $3.4 \approx$ _____

2. $5.7 \approx$ _____

3. $7.18 \approx$ _____

Round each number to the nearest tenth.

4. $2.19 \approx$ _____

5. $4.35 \approx$ _____

6. $7.482 \approx$ _____

7. $17.23 \approx$ _____

8. $0.46 \approx$ _____

9. $100.05 \approx$ _____

Round each number to the nearest hundredth.

10. $6.792 \approx$ _____

11. $10.3555 \approx$ _____

12. $1.008 \approx$ _____

13. When measuring weight, 100 pounds is equal to 45.3592 kilograms. Round this weight to the nearest hundredth of a kilogram. _____

Lesson 23T ~ Ordering and Comparing Decimals

Name _____ Period _____ Date _____

Compare each pair of decimals. Fill in the \bigcirc with $<$, $>$ or $=$ to make a true sentence.

1. $2.3 \bigcirc 2.4$

a. Put one decimal on top of the other decimal and line up the decimal points. _____

b. From left to right, compare digits. Which place is the first to be different? _____

c. Compare the different digits in **part b**. Which digit is larger? _____

d. Use $<$, $>$ or $=$ in the \bigcirc to make the comparison true. $2.3 \bigcirc 2.4$

Compare each pair of decimals. Fill in the \bigcirc with $<$, $>$ or $=$ to make a true sentence.

2. $0.6 \bigcirc 0.5$

3. $6.4 \bigcirc 6.44$

4. $3.3 \bigcirc 3.30$

5. $43.15 \bigcirc 43.1$

Circle the best answer for each question.

6. Which number is **larger than** 2.1?

A. 2.17

B. 2.03

C. 2.1

D. 2

7. Which number is **smaller than** 4.24?

A. 4.372

B. 4.4

C. 4.26

D. 4.202

8. Which number is **between** 7.92 and 8.15?

A. 8.591

B. 8.072

C. 7.85

D. 7.7

Put each set of numbers in order from least to greatest.

9. To order the following decimals: 7.4, 7.48, 7.3, 7.39

a. Put the decimals on top of each other and line up the decimal points. _____

b. From left to right, compare digits. Write the smallest decimal. _____

c. Write the largest decimal. _____

d. Write all the decimals in order from least to greatest.

_____, _____, _____, _____

Put each set of numbers in order from least to greatest.

10. 16.35, 16, 16.3, 16.5

11. 11.259, 11.2, 11.9, 11.288

Solve each problem.

12. Joe had \$20.25. Ann had \$20.50. Who had more money?

13. Noah weighed 100.4 pounds. Luke weighed 100.35 pounds. Who weighed less?

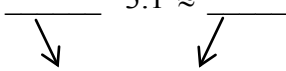
Lesson 24T ~ Estimating with Decimals

Name _____ Period _____ Date _____

Use rounding to the nearest whole number to estimate each sum.

1. $5.6 + 3.1$

a. Round each number to the nearest whole number. $5.6 \approx \underline{\quad}$ $3.1 \approx \underline{\quad}$



b. Add the rounded numbers from **part a** in the expression. $\underline{\quad} + \underline{\quad} = \underline{\quad}$

c. Use the answer from **part b** as your estimate. $5.6 + 3.1 \approx \underline{\quad}$

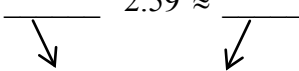
2. $2.2 + 8.9 \approx \underline{\quad}$

3. $9.75 + 5.14 \approx \underline{\quad}$

Use rounding to the nearest whole number to estimate each difference.

4. $8.41 - 2.59$

a. Round each number to the nearest whole number. $8.41 \approx \underline{\quad}$ $2.59 \approx \underline{\quad}$



b. Subtract the rounded numbers from **part a** in the expression. $\underline{\quad} - \underline{\quad} = \underline{\quad}$

c. Use the answer from **part b** as your estimate. $8.41 - 2.59 \approx \underline{\quad}$

5. $12.9 - 6.7 \approx \underline{\quad}$

6. $17.2 - 8.13 \approx \underline{\quad}$

7. Chad had about \$12.80. He spent \$5.22. About how much money does he have left?

Use rounding to the nearest whole number to estimate each product.

8. 4.82×3.3

a. Round each number to the nearest whole number. $4.82 \approx \underline{\quad}$ $3.3 \approx \underline{\quad}$

b. Multiply the rounded numbers from **part a** in the expression. $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

c. Use the answer from **part b** as your estimate. $4.82 \times 3.3 \approx \underline{\quad}$

9. $2.8 \times 7.1 \approx \underline{\quad}$

10. $5.6 \times 8.79 \approx \underline{\quad}$

11. Katie buys 3.2 pounds of grapes for \$1.98 per pound. About how much money did she spend?

Use compatible numbers to estimate each quotient.

12. $21.2 \div 4.9$

a. Round the divisor (the second number) to the nearest whole number. $4.9 \approx \underline{\quad}$

b. Change the dividend (the first number) to the nearest multiple of the whole number from **part a**. Is 21.2 closer to 20 or 25? $\underline{\quad}$

c. Divide the answer from **part b** by the answer from **part a**. $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

d. Use the answer from **part c** as your estimate. $21.2 \div 4.9 \approx \underline{\quad}$

13. $17.7 \div 2.89 \approx \underline{\quad}$

14. $35.4 \div 6.2 \approx \underline{\quad}$

Lesson 25T ~ Adding and Subtracting Decimals

Name _____ Period _____ Date _____

Find each sum.

1.
$$\begin{array}{r} 3.5 \\ + 5.3 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 7.4 \\ + 5.35 \\ \hline \end{array}$$

3. $9.244 + 5.202 =$ _____

4. $2.51 + 3.5 =$ _____

Rewrite vertically with the decimal points lined up, then add.

Four students wrote down how far they ran this week. Use the table on the right to answer the following questions. Label your answers.

Joel	4.1 miles
Maddie	5.4 miles
Matt	2.16 miles
Emily	3.38 miles

5. a. How many miles did Joel run this week? _____
b. How many miles did Maddie run this week? _____
c. How many miles did Joel and Maddie run altogether? _____

6. a. How many miles did Matt run this week? _____
b. How many miles did Emily run this week? _____
c. How many miles did Matt and Emily run altogether? _____

7. How many miles did Matt and Joel run altogether? _____

Insert a zero to hold place value for the hundredths place in Joel's number BEFORE adding:
4.1 is the same as
4.10

Find each difference.

$$\begin{array}{r} 8. \quad 6.6 \\ - 1.2 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 9.87 \\ - 3.2 \\ \hline \end{array}$$

10. $10.459 - 5.306 =$ _____

11. $11.1 - 5.72 =$ _____

**Four students wrote down how far they ran this week.
Use the table on the right to answer the following questions.
Label your answers.**

Joel	4.1 miles
Maddie	5.4 miles
Matt	2.16 miles
Emily	3.38 miles

12. a. How many miles did Maddie run this week? _____

b. How many miles did Joel run this week? _____

c. How many more miles did Maddie run than Joel? _____

13. a. How many miles did Emily run this week? _____

b. How many miles did Matt run this week? _____

c. How many more miles did Emily run than Matt? _____

14. How many more miles did Joel run than Emily? _____

Lesson 26T ~ Multiplying Decimals

Name _____ Period _____ Date _____

1. To find 1.2×3 :

- Multiply like whole numbers. $12 \times 3 =$ _____
- How many places are to the right of a decimal point in the problem? _____
- Starting on the right and moving left, count the same number of places in as the answer to **part a**. Put the decimal point where you stop.

$$1.2 \times 3 = \underline{\hspace{2cm}}$$

- Check your work by adding 1.2 three times. _____ + _____ + _____ = _____

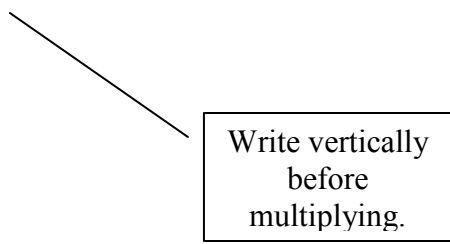
Find each product.

2.
$$\begin{array}{r} 5.3 \\ \times 2 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7.25 \\ \times 3 \\ \hline \end{array}$$

4. $3.9 \times 5 =$ _____

5. $10.34 \times 6 =$ _____



Write vertically
before
multiplying.

6. Jane buys 3 shirts that cost \$12.90 each. How much did she pay altogether?

Find each product.

$$\begin{array}{r} 7. \quad 7.7 \\ \times 1.5 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5.44 \\ \times 3.1 \\ \hline \end{array}$$

If the expression is written horizontally, rewrite the expression vertically before multiplying.

9. $3.66 \times 4.2 =$ _____

10. $5.02 \times 4.15 =$ _____

11. Scott bought 2.5 pounds of meat. The meat cost \$2.86 per pound. How much did Scott pay for the meat?

Lesson 27T ~ Dividing Decimals by Whole Numbers

Name _____ Period _____ Date _____

Find each quotient.

1. $3 \overline{)2.7}$

Move the decimal
straight up into
the answer.

2. $5 \overline{)6.5}$

3. $11.2 \div 8 =$ _____

4. $10.6 \div 4 =$ _____

You may
need to add
zeros to
finish
dividing.
 $4 \overline{)10.60}$

At a restaurant, the following families ordered meals. Divide the total price each family spent by the number of items purchased to find out what each item cost.

5. The Browns spent \$27.80 on 4 cheeseburgers. Each cheeseburger cost _____.

6. The Jones spent \$37.95 on 3 chicken dinners. Each chicken dinner cost _____.

Find each quotient. Round your answer to the nearest hundredth.

7. a. Divide $14.9 \div 8$ until you get to the thousandths place in your answer.

$$8 \overline{)14.9}$$

b. Round your answer from **part a** to the nearest hundredth. $14.9 \div 8 =$ _____

Find each quotient. Round your answer to the nearest hundredth.

8. $7.14 \div 4 =$ _____

9. $25.631 \div 2 =$ _____

10. $20.512 \div 8 =$ _____

11. $23.445 \div 5 =$ _____

12. Carl bought 3 pounds of jelly beans. The total cost was \$17.60. What is the cost of the jelly beans per pound? Round to the nearest penny.

Answer: The jelly beans cost about _____ per pound.

Lesson 28T ~ Dividing Decimals by Decimals

Name _____ Period _____ Date _____

Rewrite each division expression so the divisor is a whole number.

1. $1.22 \div 0.2$

_____ \div _____

2. $3.84 \div 1.5$

_____ \div _____

3. $10.7 \div 2.14$

_____ \div _____

4. $5 \div 0.1$

_____ \div _____

Find each quotient.

5. $1.22 \div 0.2 =$ _____

6. $6.3 \div 0.3 =$ _____

7. $10.7 \div 2.14 =$ _____

8. $5 \div 0.1 =$ _____

Rewrite each expression so the divisor is a whole number. Find each quotient.

9. $5.6 \div 0.4 =$ _____

10. $9.23 \div 2.6 =$ _____

Find each quotient. Round to the nearest tenth, if necessary.

11. To find $10.45 \div 0.7$

a. Rewrite the expression so the divisor is a whole number. _____ \div _____

b. Divide until you get to the hundredths place in your answer. Show your work below.

c. Round your answer from **part b** to the nearest tenth. $10.45 \div 0.7 \approx$ _____

Find each quotient. Round to the nearest tenth, if necessary.

12. $5.0717 \div 2.2 \approx$ _____

13. $3.475 \div 1.6 \approx$ _____

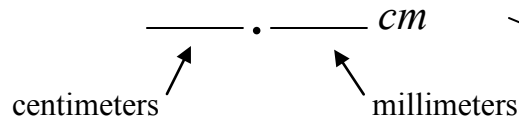
14. Jesse worked for 15.35 hours this week. He worked for 3.5 days. If he worked the same number of hours each day, how many hours did he work each day? Round your answer to the nearest tenth.

Answer: Jesse worked about _____ hours each day.

Lesson 29T ~ Measuring in Centimeters

Name _____ Period _____ Date _____

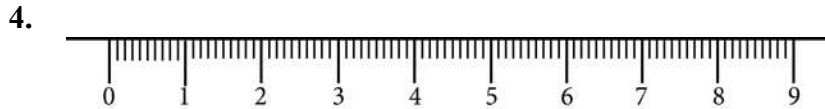
1. Write the measurement two centimeters and three millimeters as a decimal with centimeter units:



1 millimeter = 0.1 centimeters

Write each measurement as a decimal with centimeter units.

2. five centimeters and six millimeters _____
3. seventeen centimeters and four millimeters _____



- a. On the ruler, draw an arrow pointing at 3.4 *cm*.
- b. Is 3.4 *cm* closer to 3 centimeters, 3.5 centimeters or 4 centimeters? _____

Round each measurement to the nearest half centimeter.

5. 10.1 *cm* _____ 6. 2.8 *cm* _____

Measure each line to the nearest tenth of a centimeter.

7. _____ Answer: _____
8. _____ Answer: _____
9. _____ Answer: _____

10. Measure the length of the line to the nearest half centimeter.



a. Measure the exact length of the line to the nearest tenth of a centimeter. _____

b. Round the answer from **part a** to the nearest half centimeter. _____

Measure the length of each line to the nearest half centimeter.

11. _____ Answer: _____

12. _____ Answer: _____

Draw a line that has the given length.

13. 5.4 centimeters

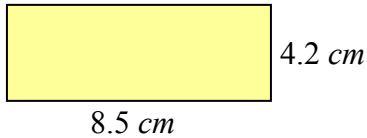
14. 10.7 centimeters

Lesson 30T ~ Area and Perimeter with Decimals

Name _____ Period _____ Date _____

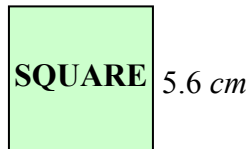
Use the given measurements to find the perimeter of each polygon. Label your answer.

1. Perimeter: _____ + _____ + _____ + _____ = _____ centimeters



Opposite sides are equal in a rectangle.

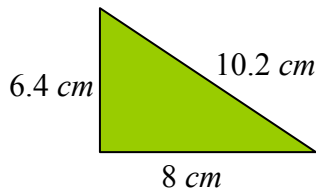
2. Perimeter: _____ + _____ + _____ + _____ = _____



All sides are equal in a square.

Remember to label your answer.

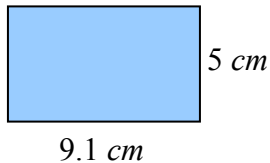
3. Perimeter: _____ + _____ + _____ = _____



Use the given measurements to find area of each polygon. Label your answer.

RECTANGLE: Area = length \times width

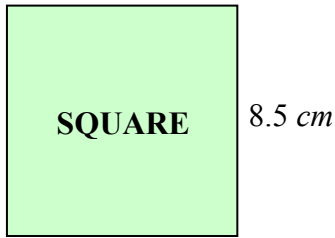
4. Area: _____ \times _____ = _____ square centimeters



Use the given measurements to find area of each polygon. Label your answer.

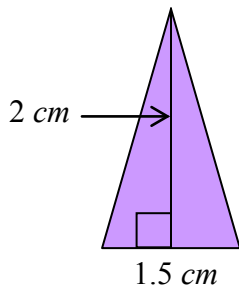
SQUARE: Area = side \times side

5. Area: _____ \times _____ = _____



TRIANGLE: Area = $0.5 \times$ base \times height

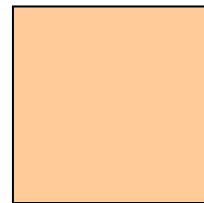
6. Area = $0.5 \times$ _____ \times _____ = _____



Measure the sides of the shape to the nearest tenth of a centimeter using a metric ruler.

7. a. Label the sides of the square with your measurements.

b. Find the perimeter of the square. Perimeter = _____



c. Find the area of the square. Area = _____

8. a. Label the sides of the rectangle with your measurements.

b. Find the perimeter of the rectangle. Perimeter = _____

c. Find the area of the rectangle. Area = _____

