

Dear Family,

Throughout the next few weeks, our math class will be studying decimals. We will be naming, comparing, ordering, and rounding decimals through thousandths. We will also be adding and subtracting decimals through hundredths.

You can expect to see homework that includes adding and subtracting decimals through hundredths.

Here is a sample of how your child will be taught to add decimals.

Vocabulary

decimal A number with one or more digits to the right of the decimal point

difference The result of subtracting two numbers

place value The value of each digit in a number based on the location of the digit

sum The result of adding two or more numbers

thousandth One of one thousand equal parts



MODEL Adding Decimals

Add 12.78 and 31.14.

STEP 1

Estimate the sum.

12.78 is about 13.

31.14 is about 31.

$$13 + 31 = 44$$

STEP 2

Write the problem with the decimal points aligned. Add the hundredths first. Then, add the tenths, ones, and tens. Regroup as needed.

$$\begin{array}{r} 1 \\ 12.78 \\ +31.14 \\ \hline 43.92 \end{array}$$

Tips

Adding and Subtracting Decimals

Always remember to align numbers on the decimal point when adding or subtracting decimals. That way, you are adding or subtracting the same place values.

Activity

Collect store advertisements from the newspaper. Have your child practice adding and subtracting decimals by writing and solving problems that involve money using the store advertisement.

Name _____

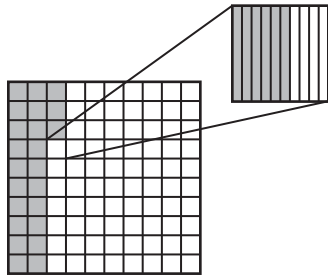
Thousandths



COMMON CORE STANDARD—5.NBT.1
Understand the place value system.

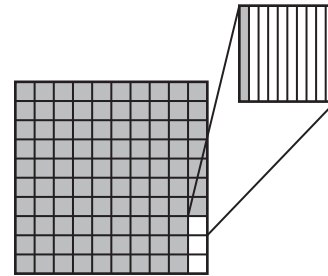
Write the decimal shown by the shaded parts of each model.

1.



0.236

2.



Think: 2 tenths, 3 hundredths,
and 6 thousandths are shaded

Complete the sentence.

3. 0.4 is 10 times as much as _____.

4. 0.003 is $\frac{1}{10}$ of _____.

Use place-value patterns to complete the table.

Decimal	10 times as much as	$\frac{1}{10}$ of
5. 0.1		
6. 0.09		
7. 0.04		
8. 0.6		

Decimal	10 times as much as	$\frac{1}{10}$ of
9. 0.08		
10. 0.2		
11. 0.5		
12. 0.03		

Problem Solving

13. The diameter of a dime is seven hundred five thousandths of an inch. Complete the table by recording the diameter of a dime.

14. What is the value of the 5 in the diameter of a half dollar?

15. Which coins have a diameter with a 5 in the hundredths place?

U.S. Coins	
Coin	Diameter (in inches)
Penny	0.750
Nickel	0.835
Dime	
Quarter	0.955
Half dollar	1.205

Name _____

Place Value of Decimals**COMMON CORE STANDARD—5.NBT.3A**
*Understand the place value system.***Write the value of the underlined digit.**

1. 0.287

2. 5.349

3. 2.704

8 hundredths, or 0.08

4. 9.154

5. 4.006

6. 7.258

7. 0.198

8. 6.821

9. 8.027

Write the number in two other forms.

10. 0.326

11. 8.517

12. 0.924

13. 1.075

Problem Solving

14. In a gymnastics competition, Paige's score was 37.025. What is Paige's score written in word form?

15. Jake's batting average for the softball season is 0.368. What is Jake's batting average written in expanded form?

Name _____

Compare and Order Decimals**COMMON CORE STANDARD—5.NBT.3B**
*Understand the place value system.***Compare. Write $<$, $>$, or $=$.**

1. $4.735 \text{ } \textcircled{<} \text{ } 4.74$

2. $2.549 \text{ } \textcircled{=} \text{ } 2.549$

3. $3.207 \text{ } \textcircled{=} \text{ } 3.027$

4. $8.25 \text{ } \textcircled{=} \text{ } 8.250$

5. $5.871 \text{ } \textcircled{=} \text{ } 5.781$

6. $9.36 \text{ } \textcircled{=} \text{ } 9.359$

7. $1.538 \text{ } \textcircled{=} \text{ } 1.54$

8. $7.036 \text{ } \textcircled{=} \text{ } 7.035$

9. $6.700 \text{ } \textcircled{=} \text{ } 6.7$

Order from greatest to least.

10. 3.008; 3.825; 3.09; 3.18

11. 0.275; 0.2; 0.572; 0.725

12. 6.318; 6.32; 6.230; 6.108

13. 0.456; 1.345; 0.645; 0.654

Algebra Find the unknown digit to make each statement true.

14. $2.48 > 2.4 \text{ } \blacksquare \text{ } 1 > 2.463$

15. $5.723 < 5.72 \text{ } \blacksquare \text{ } < 5.725$

16. $7.64 < 7. \text{ } \blacksquare \text{ } 5 < 7.68$

Problem Solving

17. The completion times for three runners in a 100-yard dash are 9.75 seconds, 9.7 seconds, and 9.675 seconds. Which is the winning time?

18. In a discus competition, an athlete threw the discus 63.37 meters, 62.95 meters, and 63.7 meters. Order the distances from least to greatest.

Name _____

Round Decimals



COMMON CORE STANDARD—5.NBT.4
Understand the place value system.

Write the place value of the underlined digit. Round each number to the place of the underlined digit.

1. 0.782

tenths

0.8

2. 4.735

3. 2.348

4. 0.506

5. 15.186

6. 8.465

Name the place value to which each number was rounded.

7. 0.546 to 0.55

8. 4.805 to 4.8

9. 6.493 to 6

10. 1.974 to 2.0

11. 7.709 to 8

12. 14.637 to 15

Round 7.954 to the place named.

13. tenths

14. hundredths

15. ones

Round 18.194 to the place named.

16. tenths

17. hundredths

18. ones

Problem Solving



19. The population density of Montana is 6.699 people per square mile. What is the population density per square mile of Montana rounded to the nearest whole number?

20. Alex is mailing an envelope that weighs 0.346 pounds. What is the weight of the envelope rounded to the nearest hundredth?
