6th GRADE ACCELERATED MATH

<u>Unit 1</u> <u>Number Systems</u>

Name



Large Numbers

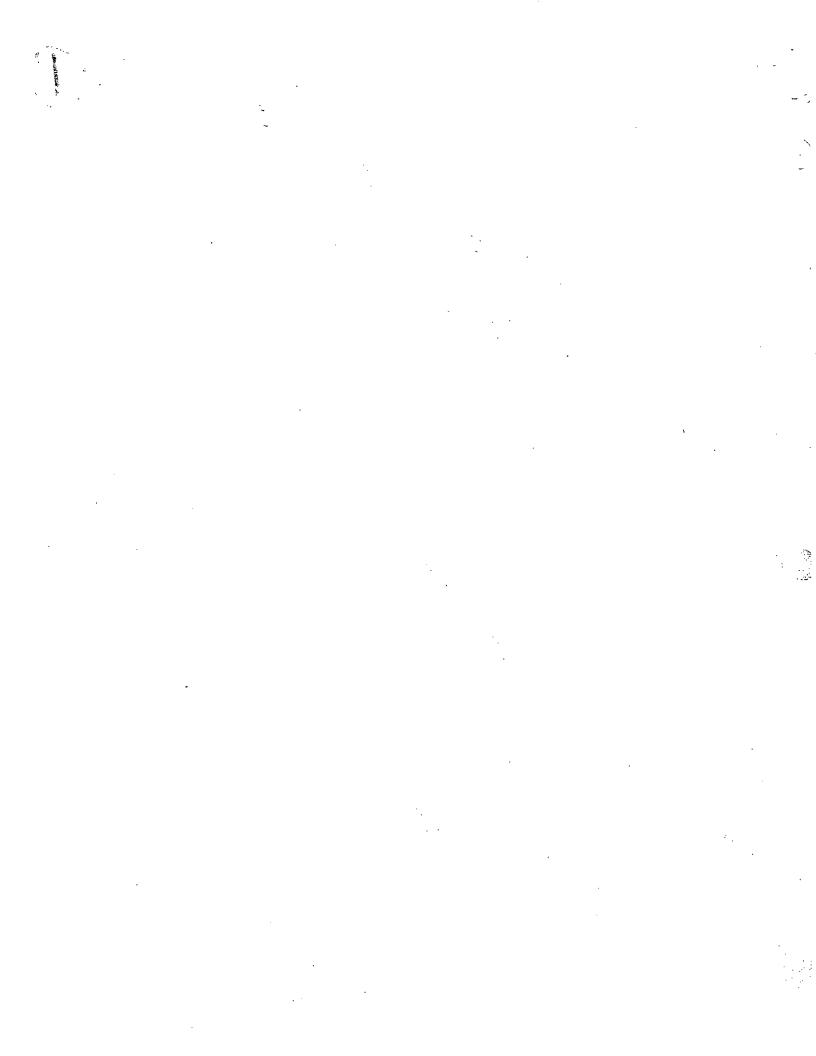


Γ	<u>+ri</u>	llions		<u>).</u>	b	illion			m	illion	s		tho	usar				ones	
	100,000,000,000,000	10,000,000,000,000	1,000,000,000,000,1	万國 八五 八年 衛軍 安安 中	100,000,000,000	10,000,000,000	1,000,000,000	一川田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	00,00	10,000,000	1,000,000	The state of the s	100,000	10,000	1,000	(1987年) · 1987年 · 19874 · 1987年 · 198	100	10	

- 1. Write the digit in each place of the number 6,812,507,439.
- b. hundred thousands _____
- c. ten millions _

- d. billions ____
- e. hundred millions _____
- f. ten thousands _
- 2. Write each of the following numbers in standard form.
 - a. four hundred thirty thousand

 - b. ninety million, one hundred five thousand _
 - c. one hundred seventy million, sixty-five
 - d. nine billion, five hundred million, two hundred forty-three thousand
 - 3. Write each number in expanded form. Example: 235 = (2 * 100) + (3 * 10) + (5 * 1)
 - a. 321,000
 - **b.** 7,300,000,000,000
 - **c.** 2,510,709
 - 4. Use extended facts to complete the following.
 - a. 1 million = 1,000 * _____
 - 1 billion = 1,000 * _____





Walking Away with a Billion Dollars



Suppose you inherit one billion dollars. The bank pays you the entire amount of money in \$100 bills. About how much will your payment weigh in tons?

Use the information below to solve the problem.

- ♦ You can cover a sheet of paper with about six \$100 bills.
- ◆ There are 500 sheets in a ream of paper.
- ◆ There are 10 reams in 1 carton of paper.
- ◆ One ream of paper weighs about 5 pounds.
- ◆ One ton equals 2,000 pounds. ,

Show all your wor				
				
	 	A CONTRACTOR OF THE CONTRACTOR		`
•				





Writing Decimals continued



tenthous and the thousandths Tundredins 0.001 100 9

Write each of the following numbers in expanded notation.

Example: 2.756 = (2 * 1) + (7 * 0.1) + (5 * 0.01) + (6 * 0.001)

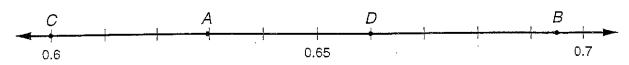
- **11.** 0.013
- **12.** 109.3527 ₋



13. Using the digits 0, 3, 6, and 8, write the greatest decimal number possible.

14. Using the digits 0, 3, 6, and 8, write the least decimal number possible.

Try This



Name the point on the number line that represents each of the following numbers.

- **15.** 0.66 _____ **16.** 0.6299 ____ **17.** 0.6 ____ **18.** 0.695 ____

- 19. Refer to the number line above. Round 0.6299 to the nearest hundredth.

Practice

- **20.** 0.01 + 0.006 + 0.0098 = _____
- 21. 0.7 + 0.04 + 0.0002 =
- $\underline{} = 40 + 5 + 0.009$
- **23.** ____ = 0.50 + 0.080 + 0.00010



Lesson 8: Adding and Subtracting Decimals

When you compute with decimals, the placement of the decimal point is very important. You must line up the decimal points and place values in the numbers you are adding or subtracting. You may need to use zeros as placeholders. Then add or subtract the two decimals as if they were whole numbers. Finally, move the decimal point straight down into the sum or difference.



> Example

What is the sum of 3.13 + 2.392?

Line up the numbers by their decimal points. You can add a zero as a placeholder at the end of 3.13. That way, both numbers have the same number of digits to the right of the decimal point. Then add.

$$\begin{array}{r}
1 \\
3.130 \\
+ 2.392 \\
\hline
5.522 \\
3.13 + 2.392 = 5.522
\end{array}$$



Example

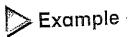
The Mueller family checks two suitcases at the airport. The weight of the larger suitcase is 44.8 pounds. The weight of the lighter suitcase is 31.337 pounds. What is the combined weight of the two suitcases?

Line up the numbers by their decimal points. Add two zeroes to 44.8 as placeholders so both numbers have the same number of digits to the right of the decimal point. Then add.

The combined weight of the two checked suitcases is 76.137 pounds,



CCSS: 6.NS.8



What is the difference of 8.19 - 4.123?

Line up the numbers by their decimal points. Add a zero as a placeholder at the end of 8.19. That way, both numbers have the same number of digits to the right of the decimal point. Then subtract.

$$8.1\%0
8.1\%0
- 4.123
- 4.067
8.19 - 4.123 = 4.067$$

Example

A quart of blueberries costs \$3.99. A quart of organic blueberries costs \$5.75. How much more expensive is the quart of organic blueberries?

Line up the numbers by their decimal points. Then subtract.

The organic blueberries are \$1.76 more expensive.

Example

Rebecca is 1.6 meters tall. Her brother Jamaal is 1.485 meters tall. How much taller is Rebecca than her brother?

Line up the numbers by their decimal points. Add two zeroes as placeholders at the end of 1.6. That way, both numbers have the same number of digits to the right of the decimal point. Then subtract.

Rebecca is 0.115 meter taller than her brother.



) Practice

Directions: For questions 1 through 12, add.

- 11. Corrine earned \$57.50 waiting tables, plus another \$45.45 in tips. How much did she earn altogether?
- 12. Marco ran 2.67 miles to a county park. He then ran 1.5 miles in a loop around the park. How many miles did he run in total?

CCSS: 6 NS.3

Directions: For questions 13 through 22, subtract.

23. A laptop computer weighs 6.4 pounds. A notebook computer weighs 3.75 pounds. How much heavier is the laptop than the notebook?

Explain how you found your answer.

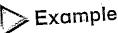
Lesson 9: Multiplying and Dividing Decimals

Use the following steps to multiply decimals.

Step 1: Multiply decimals as if they were whole numbers.

Step 2: Count the number of digits to the right of the decimal point in each factor.

Step 3: Move the decimal point that many places to the left in the product.



Multiply: 4.5×245.76

Multiply decimals as if they were whole numbers.

$$245.76$$
 $\times 4.5$
 122880
 $+ 983040$
 $1,105,920$

Count the number of digits to the right of the decimal point in each factor.

245.76
$$\leftarrow$$
 2 digits to the right of the original decimal point \times 4.5 \leftarrow 1 digit to the right of the original decimal point

Move the decimal point that many places to the left in the product.

Therefore, $4.5 \times 245.76 = 1,105.92$.

Use the following steps to divide decimals.

Step 1: If the divisor is a decimal, move the decimal point to the right to make it a whole number. Move the decimal point in the dividend to the right the same number of places.

Step 2: Divide the decimals as if they were whole numbers.

Step 3: Move the decimal point from its new location in the dividend into the quotient.

Example

Divide: 8.4 ÷ 2.4

Make the divisor a whole number by moving the decimal point to the right. Move the decimal point in the dividend to the right the same number of places.

Divide the decimals as if they were whole numbers.

Move the decimal point from its new location in the dividend into the quotient.

Therefore, $8.4 \div 2.4 = 3.5$.



Practice

Directions: For questions 1 through 14, find the product.

7.
$$6.09 \times 2.5 = ?$$

14.
$$13.2 \times 9.6 = ?$$



Sports Records



Solve.

1. The fastest winning time for the New York Marathon (Tesfay Jifar of Ethiopia, 2001) is 2 hours, 7.72 minutes. The second fastest time is 2 hours, 8.017 minutes (Juma Ikangaa of Tanzania, 1989).



How much faster was Jifar's time than Ikangaa's?

2. In the 1908 Olympic Games, Erik Lemming of Sweden won the javelin throw with a distance of 54.825 meters. He won again in 1912 with a distance of 60.64 meters.

How much longer was his 1912 throw than his 1908 throw?

3. Driver Buddy Baker (Oldsmobile, 1980) holds the record for the fastest winning speed in the Daytona 500 at 177.602 miles per hour. Bill Elliott (Ford, 1987) has the second fastest speed at 176.263 miles per hour.

How much faster is Baker's speed than Elliott's?

4. The highest scoring World Cup Soccer Final was in 1954. Teams played 26 games and scored 140 goals for an average of 5.38 goals per game. In 1950, teams played 22 games and scored 88 goals for an average of 4 goals per game.

What is the difference between the 1954 and the 1950 average goals per game?

- **5.** 46.09 + 123.047 Estimate ______ **6.** 0.172 + 4.5 Estimate _____
- - 46.09 + 123.047 = _____
- 0.172 + 4.5 = ____

Practice

Solve mentally.

- **7.** \$0.36 + \$0.29 + \$0.64 + ____ = \$2.00
- **9.** 9.225 + 8.5 + 5.775 + ____ = 25
- **10.** \$3.69 + ____ + \$8.31 + \$6.25 = \$25



Multiplying by Powers of 10



Some Powers of 10									
10⁴	10 ³	10 ²	10 ¹	10°	*	10-1	10-2	10-3	10 ⁻⁴
10 * 10 * 10 * 10	10 * 10 * 10	10 * 10	10	1	ì	10	$\frac{1}{10} * \frac{1}{10}$	$\frac{1}{10} * \frac{1}{10} * \frac{1}{10}$	$\frac{1}{10} * \frac{1}{10} * \frac{1}{10} * \frac{1}{10}$
10,000	1,000	100	10	1		0.1	0.01	0.001	0.0001

Multiply.

5.
$$0.15 * 10^3 =$$

4.
$$= 7 * 10^{-2}$$

8.
$$42.8 * 10^{-3} =$$

- 9. Mathematician Edward Kasner asked his 9-year-old nephew to invent a name for the number represented by 10¹⁰⁰. The boy named it a googol. Later, an even larger number was named—a googolplex. This number is represented by 10^{900gol}, or 10¹⁰
 - a. How many zeros are in the standard form of a googol, or 10100?
 - b. One googolplex is 1 followed by how many zeros?
- The speed of computer memory and logic chips is measured in nanoseconds. A nanosecond is one-billionth of a second, or 10⁻⁹ second. Write this number in standard form.
- 11. Light travels about 1 mile in 0.000005 seconds. If a spacecraft could travel at this speed, it would travel almost 10⁶ miles in 5 seconds. About how far would this spacecraft travel in 50 seconds?

_____ mile

Practice

Mentally calculate your change from \$10.

12. Cost: \$4.75; Change: _____

13. Cost: \$3.98; Change: _____

14. Cost: \$0.89; Change: _____

15. Cost: \$8.46; Change: _____





Multiplying Decimals: Part 1



Multiply.



4. Use your answer for Problem 1 to place the decimal point in each product.

5. Use your answer for Problem 3 to place the decimal point in each product.

Two new U.S. nickels were issued in 2004. A likeness of Thomas Jefferson remained on the front of the nickels. The reverse side featured images commemorating either the Louisiana Purchase or the Lewis and Clark expedition.

6. A U.S. nickel is 1.95 mm thick.

a. Estimate the height of a stack of 25 nickels. Estimate _____ mm

b. Calculate the actual height of the stack in mm. _____ mm

c. How much is a stack of 25 nickels worth?

Practice

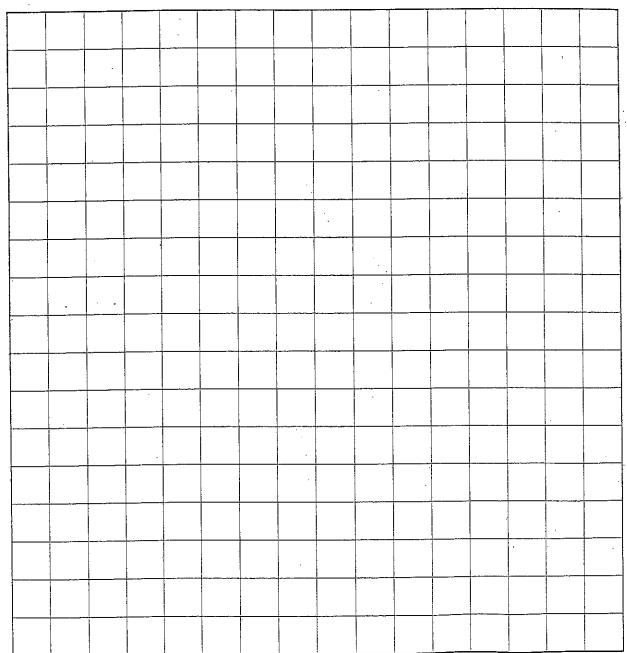
Multiply by 0.10 to find 10% of each number.



Whole Number Multiplication



Use your favorite multiplication algorithm to find the following products. Show your work in the computation grid below or on a separate sheet of paper.

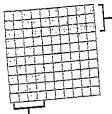




Name ---

Find each product.





- 0.3 1 Decimal place
- x 0.4 1 Decimal place 0.☐☐ ◆ 2 Decimal places
- 1.8 ← 1 Decimal place 0.7 • 1 Decimal place

- 0.14 Decimal places 6 x 0.6 ← _ Decimal places
 - 👉 __ Decimal places (

Remember to write zeros in the product as needed.

1,26 ← __ Decimal places x 0.32 ← _ Decimal places

- **6** 4.8 x 1 = ____
 - 4.8 × 10 = ----
 - 4.8 x 100 = ____

- 2.15 x 1 = ____ **6** 2.15 x 10 = ____
 - 2.15 x 100 = ____

← __ Decimal places

Find each quotient.



4.8 x 10 12 x 10

→ 48<u>, 120,</u>0

Think: Multiply the divisor by a power of 10 to make a whole number. Multiply the dividend by the same number.

x 100 x 100

215, 903,00

3)19.35

Remember to place the decimal point in the quotient,

1

 $6.8 \div 0.32$

Think: Multiply 0,32 by 100 and 6.8 x 100. Then diviDirections: For questions 22 through 35, find the quotient.

$$-28. \ 0.26 \div 0.4 = ?$$

35.
$$66.24 \div 3.6 = ?$$

Unit 8 • Multiply and Divide Decimal:



_{Find} each product.

- 0.6 # 1 Decimal place 0
 - x 0.7 ← 1 Decimal place ♠ 2 Decimal places
- \$4.56 0

\$1.75 8 0.13

0.542 4 0.4

0.12 6 0.6

 $1.35 \times 1 = -$ 6 1.35 x 10 = ____

Remember to write zeros in the product as needed.

 $1.35 \times 100 = -$

 4.8×0.24

6 7.4 x 0.3

6.4 x 1.6 9

Find each quotient.

1 3,2, 33,6,

2.84) 5.68,

6) 25.92

B 3) 19.35

9,8 ÷ 0,32

15.4 ÷ 0.22 Ð



Find each product or quotient.

- 0.18 x 0.6
- 2 1.72 × 0.3
- 3 \$12.08 x 3
- 4 \$10.60 x 0.15

- **6** 5.2 x 0.73
- **6** 6.7 × 0.19
- - 2.7 x 100 = ___

- **9** 5.5) 660
- 1.73) 519
- 4.01) 65.3
- 7.3) 90.5

- **13** 3.5) 714
- 9.2) 548
- **15** 0.08)328
- **16** 0.61) 15.25

- 80.5 ÷ 2.5
- **13** 0.04 x 125
- 19,66 ÷ 1.2
- **20** 167 x 0,08



Write the steps you take to divide a decimal by a decimal. Use Problem 8 as an example.

Multiplying Decimals: Part 2



Place a decimal point in each problem.



2.
$$16.4 * 0.7 = 1148$$

Multiply: Show your work on a separate sheet of paper or on the back of this page.

Solve each problem. Then write a number model. (Hint: Change fractions to decimals.)

9. Janine rides her bike at an average speed of 11.8 miles per hour. At that speed, about how many miles can she ride in $6\frac{1}{2}$ hours?

Number Model _____

10. Kate types at an average rate of 1.25 pages per quarter hour. If she types for $2\frac{3}{4}$ hours, about how many pages can she type?

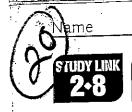
Number Model _____

11. Find the area in square meters of a rectangle with length 1.4 m and width 2.9 m.

Number Model _____

Practice -

Multiply mentally by 0.10 to find 10%. Then mentally calculate the percent that has been assigned to each number.



Dividing Decimals



For each problem, follow the steps below. Show your work on a separate sheet of paper or a computation grid.



- ◆ Estimate the quotient. Use numbers that are close to the numbers given and that are easy to divide. Write your estimate. Then write a number sentence to show how you estimated.
- ◆ Ignore any decimal points. Divide as if the numbers were whole numbers.
- ◆ Use your estimate to insert a decimal point in the final answer.

1. 19.76 ÷ 8 Estimate	
------------------------------	--

How Lestimated

Answer _____

4. 51.8 / 7

Estimate _____

How I estimated

How I estimated

Answer _____

Answer _____

- 5. Find 17 ÷ 6. Give the answer as a decimal with 2 digits after the decimal point.
- **6.** Five people sent a \$36 arrangement of flowers to a friend. Divide \$36 into 5 equal shares. How much is 1 share, in dollars and cents?

Practice

Divide mentally to find the price for 1 pound (lb).



ین,√e.

- Ava bought 3.5 kilograms of grapes for \$8.68. How much does 1 kilogram of grapes cost?
- Jordan has \$10.00. If each drawing pen costs \$1.49, how many can he buy?

- Tyler's cat had 7 kittens. Each one weighed about 3.75 ounces. How much did they weigh altogether?
- Marina bought 2.6 pounds of salmon at the fish market. The total cost was \$38.87. What was the price of the salmon per pound?
- The price of the Jacket is \$60.

 The sales tax is 8% of the price. How much is the sales tax on the Jacket?
- The dinner check was \$78.00.

 If Erin leaves a 20% tip, how much will the tip be?

Circle the letter for the correct answer.

- What is the product of 0.14 and 0.03?
- What is the quotient of 3.92 divided by 0.04?

- **a)** 0.0042
- **b)** 0.042
- **c)** 0.42
- **d)** 4.2

- **a)** 980
- **b)** 98
- c) 9.8
- **d)** 0.98



Using Scientific Notation



Write each number in standard notation.

1.
$$1.24 * 10^4 =$$

1.
$$1.24 * 10^4 =$$
 ______ **2.** $3.5 * 10^{-3} =$ _____

3.
$$8 * 10^{-6} =$$
 4. $7.061 * 10^8 =$ **...**

4.
$$7.061 * 10^8 =$$

Change the numbers given in standard notation to scientific notation. Change the numbers given in scientific notation to standard notation.

- 5. Light travels about 11,802,000,000, or _____, inches per second.
- A bacterium can travel across a table at a speed of 1.6 * 10⁻⁴

or _____, km per hour.

- 7. One dollar bill has a thickness of 0.0043, or _____, inches.
- 8. The mass of 1 million pennies is approximately $2.835 * 10^6$, or ______, grams.

Use <, >, or = to compare each pair of numbers.

9.
$$10^{-2}$$
 ____ 10^{-3}

10.
$$1.23 * 10^{-3}$$
 $\frac{1.23}{1,000}$

11.
$$9.87 * 10^5$$
 _____ $1.2 * 10^6$ **12.** $5.4 * 10^{-1}$ _____ $9.6 * 10^{-4}$

13. Explain how you can tell whether a number written in scientific notation is less than 1.

Practice

Solve mentally.



Exponential Notation



Use your calculator to write each number in standard notation.

$$7^2 =$$

1.
$$7^2 =$$
 2. $(0.25)^2 =$ **3.** $4^3 =$ **-----**

$$3. 4^3 =$$

4.
$$(0.41)^3 =$$
 5. $10^{-5} =$ **6.** $(2.5)^{-3} =$ **.**

5.
$$10^{-5} =$$

6.
$$(2.5)^{-3} =$$

Use digits to write each number in exponential notation.

Write each number as a product of repeated factors.

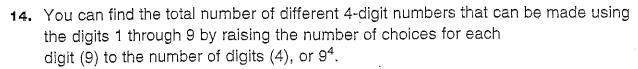
Example: $5^3 = 5 * 5 * 5$



11.
$$(\frac{1}{2})^5 =$$

12.
$$10^{-2} =$$

13.
$$10^{-6} =$$



Based on this pattern, how many different 5-digit numbers could you make from the digits 1 through 8?

Practice

Solve mentally.

Multiply by Powers of Ten (A)

Find each product.

$$58 \times 10 =$$

$$75 \times 10 =$$

$$54 \times 10 =$$

$$21 \times 0.1 =$$

$$2 \times 0.001 =$$

$$3 \times 0.1 =$$

$$54 \times 1,000 =$$

$$71 \times 100 =$$

$$33 \times 10 =$$

$$24 \times 100 =$$

$$61 \times 10 =$$

$$61 \times 10 =$$

$$4 \times 0.01 =$$

$$68 \times 10 =$$

$$17 \times 0.01 =$$

$$52 \times 1,000 =$$

$$20 \times 0.001 =$$



Multiply by Powers of Ten (A)

Find each product.

 $8.87 \times 0.001 =$

 $7.725 \times 0.001 =$

 $9.57 \times 100 =$

 $1.088 \times 1 =$

 $3.152 \times 0.001 =$

 $9.2236 \times 10 =$

 $9.4848 \times 1,000 =$

 $2.8 \times 1 =$

 $5.5654 \times 100 =$

 $4.75 \times 10 =$

 $9.55 \times 100 =$

 $3.8 \times 0.001 =$

 $9.47 \times 1,000 =$

 $1.418 \times 1 =$

 $9.532 \times 0.01 =$

 $1.7947 \times 10 =$

 $6 \times 1,000 =$

 $2.4132 \times 0.001 =$

 $1.013 \times 1,000 =$

 $9.8131 \times 10 =$

Multiply by Negative Powers of Ten (A)

Find each product.

$$92 \times 10^{-1} =$$

$$98 \times 10^{-2} =$$

$$58 \times 10^{-1} =$$

$$10 \times 10^{-2} =$$

$$16 \times 10^{-1} =$$

$$18 \times 10^{-2} =$$

$$31 \times 10^{-1} =$$

$$62 \times 10^{-3} =$$

$$87 \times 10^{-2} =$$

$$5 \times 10^{-1} =$$

$$34 \times 10^{-3} =$$

$$77 \times 10^{-2} =$$

$$95 \times 10^{-1} =$$

$$71 \times 10^{-1} =$$

$$50 \times 10^{-2} =$$

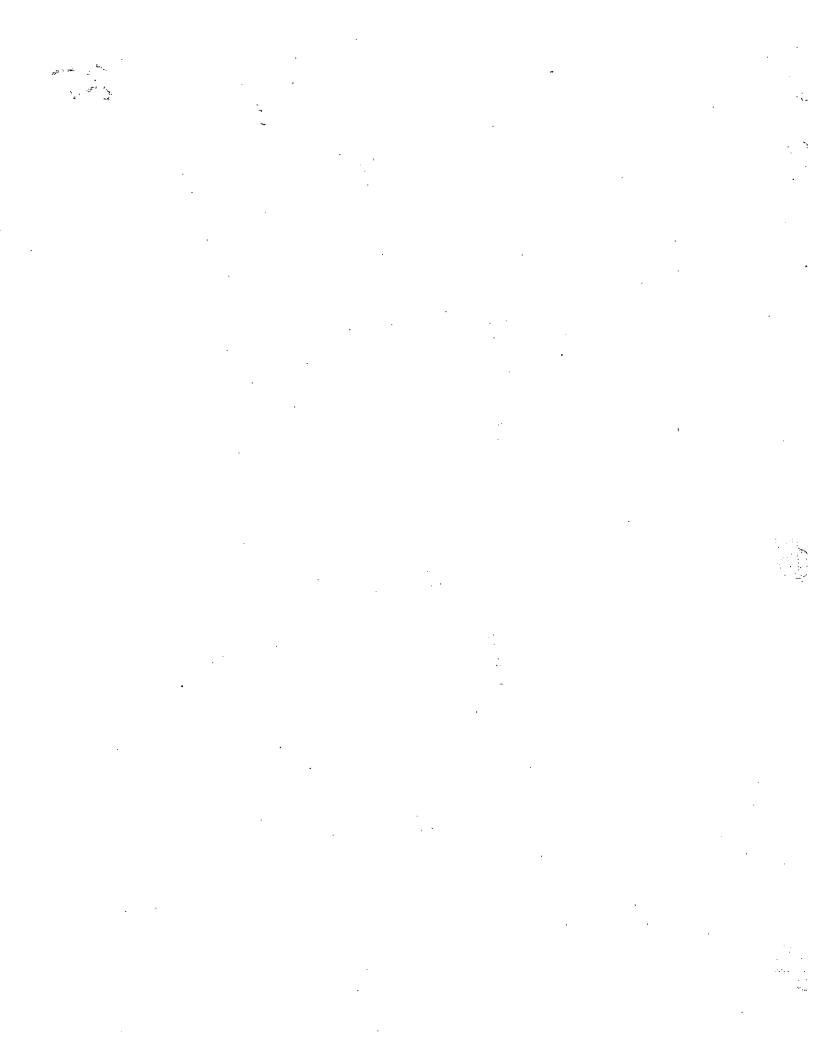
$$31 \times 10^{-3} =$$

$$72 \times 10^{-1} =$$

$$6 \times 10^{-2} =$$

$$37 \times 10^{-1} =$$

$$68 \times 10^{-3} =$$



Scientific Notation



Write the following numbers in scientific notation.

- 1. 0.0036
- **2.** 0.0007 _____
- **3.** 80,000 _____
- 4. 600 thousand _____

Write the following numbers in standard notation.

Write the next two numbers in each pattern.

9.
$$1 * 10^{-1}$$
; 0.1 ; $1 * 10^{-2}$; 0.01 ; _______;

Solve the following problems. Write each answer in scientific notation.

11.
$$(4 * 10^3) - 10^2 =$$
 12. $10^3 - (2 * 10^1) =$

12.
$$10^3 - (2 * 10^1) =$$

13.
$$(5 * 10^{-1}) + 0.02 =$$
 14. $(7 * 10^{4}) - 10^{3} =$ **...**

14.
$$(7 * 10^4) - 10^3 =$$

15. Use a calculator to complete the table.

Problem	Calculator Display	Scientific Notation	Standard Notation
5,000,000 ²		·	
90 ⁴ - 300 ²		·	
$20^3 + 30^2$			
10 ⁴ * 10 ⁴		·.	
5 ²⁰ / 5 ¹⁶		;	

Practice

Find the missing digits to complete each number sentence.



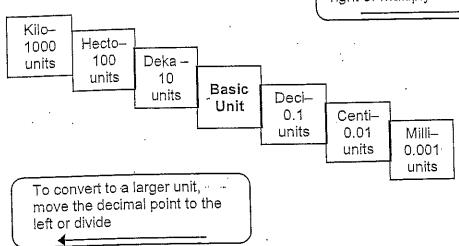
	2005011 7. Welliptying and Dividing Decimals
36.	Lauren is helping her parents put a row of bricks in front of their garden. The length of the garden is 105 inches. If each brick is 7.5 inches long, how many bricks will be used for the row?
37.	Strawberries are on sale for \$2.30 per pound. Noah bought a bag of strawberries for \$8.05. How many pounds of strawberries did Noah buy?
38.	Alexis spent \$12.72 on 8 equal-priced notebooks. How much did each notebook cost?
39.	Justin made 6 banana shakes for his friends. He used a total of 7.5 bananas. How many bananas did Justin use in each shake?
40.	Whitney's class went on a field trip to the St. Louis Gateway Arch. Each student rode the tram and saw a movie about the making of the arch. The total cost of the student tickets was \$142.50. If each combined ticket for the tram and the movie cost \$7.50, how many students went on the field trip?
41,	Rachel used 1.2 gallons of paint to paint 225 square feet of wall. How much wall does one gallon of paint cover?
	Explain how you found your answer.



Metric Conversions

Use this ladder to help you convert units:

To convert to a smaller unit, move the decimal point to the right or multiply



Practice with these conversions:

2)
$$105 \text{ km} = \underline{\qquad} \text{m}$$
 3) $500 \text{ cm} = \underline{\qquad} \text{m}$

6)
$$7 L = ___m ml$$

$$7) 198 g = kg$$

7)
$$198 g = ___kg = __L$$

10)
$$7.6 \text{ m} = \underline{\qquad} \text{cm} \quad 11) 19 \text{ cm} = \underline{\qquad} \text{mm} \quad 12) 1500 \text{ m} = \underline{\qquad} \text{km}$$

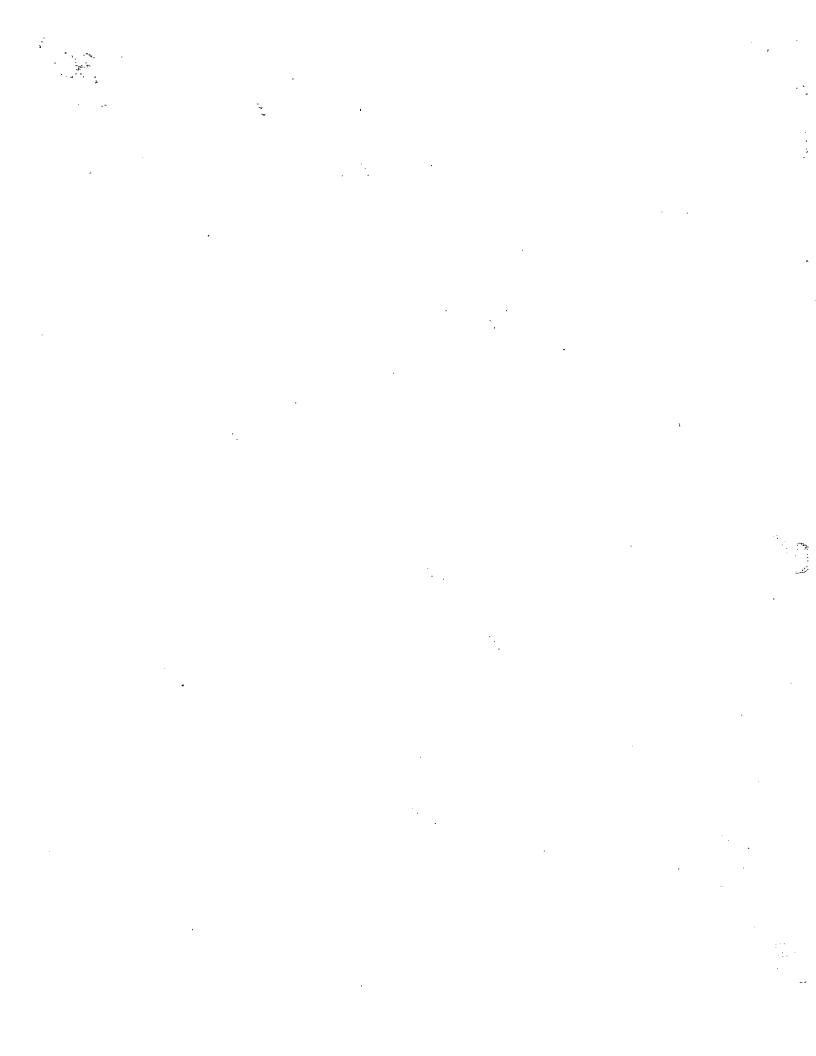
12) 1500 m =
$$\underline{\hspace{1cm}}$$
 km

13)
$$25 g = ___ mg$$
 14) $8.3 cm = ___ mm$ 15) $130 mg = __ g$

$$5) 130 \text{ mg} = ___g$$

Here's an easy way to remember the metric units:

King Henry Died Monday Drinking Chocolate Milk



(31)

Metric Mania Conversion Practice

Name_____

To convert to a smaller unit, move decimal point to the right or multiply.

To convert to a larger unit, move decimal point to the left or divide.

Try these conversions, using the ladder method.

Compare using <, >, or =.

(32)	- ·		
Name:		Score:	
Teacher:		Date:	

Converting Between Metric Units

	Conversing D
1)	8.73 m to cm
2)	128,860 cm to m
3)	64.42 m to mm
4)	835,500 mm to m
5)	5.29 km to m
6)	4,019 m to km
	86.56 cm to mm
8)	5,940 mm to cm
9)	93.27 km to cm
10)	291,700 cm to km
11)	19.92 km to mm
12)	445 mm to km
13)	719.52 L to mL
14)	902,300 mL to L
15)	2.44 g to mg
16)	207,300 mg-to g
17)	46.95 kg to g
18)	21,210 g to kg
101	87 17 kg to mg

20) 2,655 mg to kg _____

(33)

Metric Mania

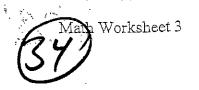
Name_____

Conversion Challenge

Write the correct abbreviation for each metric unit.

Try these conversions, using the ladder method.

Compare using <, >, or =.



Scientific Notation Worksheet 3

Write a number in scientific notation.

1a.	3	1b.	7,407,170
2a.	75,925	2b.	464
3a.	445,024	3b.	1,202,260
4a.	250,618	4b.	35,658
5a.	92	5b.	7,877,900
6a.	86	6b.	4,541

Answer Key

Copying permission: You are free to copy this worksheet to any number of students for their mathematics work. Do not distribute on websites, books, or any such material without permission.

Copyright 2003-2011 Maria Miller / HomeschoolMath.net free worksheets