

Solve Multi-Step Problems Involving Money and Multiplication

Name _____

Review

You can use more than one step to solve word problems that involve decimals.

Maya buys 3 hot chocolates and 2 coffees for her friends. A hot chocolate costs \$2.85, and a coffee costs \$1.75. How can you find the amount she spent?

Step 1 Multiply the cost by the number of each item.

$$\begin{array}{r} ^2 ^1 \\ \$2.85 \\ \times 3 \\ \hline \$8.55 \end{array}$$

$$\begin{array}{r} ^1 ^1 \\ \$1.75 \\ \times 2 \\ \hline \$3.50 \end{array}$$

Step 2 Add the total cost for each to find the amount spent.

$$\begin{array}{r} ^1 \\ \$8.55 \\ + \$3.50 \\ \hline \$12.05 \end{array}$$

Maya spent \$12.05.

Solve each problem. Show your work.

- Kat charges \$8.50 per hour to walk dogs and \$6.15 per hour to weed flowerbeds. This week, she walked dogs for 4 hours and weeded flowerbeds for 6 hours. How much did she earn?
- Padma buys 12 pencils for \$0.63 each and pays with a \$10 bill. How much change will she get?

Solve Multi-Step Problems Involving Money and Multiplication

Lesson 6-6 • Extend Thinking

Name _____

School Supplies

Eraser	\$0.35
Pencil	\$0.73
Scissors	\$2.58
Notebook	\$1.44
Glue	\$0.97

- Abby has \$20 to buy school supplies. If she wants to buy an equal number of each item, what is the maximum number of each item she can buy for \$20? Explain.

- How much money will she have left?

- How many erasers could she buy with her change? Show your work.

- Abby's dad gives her \$10 more. Instead of buying erasers, could she buy 2 more of each item? Explain.

Super-Journal Week 2:5

Every night, you should be reading at least 30 minutes of whatever book you have checked out from your assigned reading list. Tape or glue (but do not staple) this sheet into your Super-Journal on the left-side page. Fill in the table below *every day* by recording the required data.

Day	Title	Start Pg.	End Pg.	Parent Sign.
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				

On the right-side page of your Super-Journal, answer one of the questions below throughout the week. Be sure that the questions you choose to answer go with the appropriate type of book (Fiction or Nonfiction). The Super-Journal is due on the first day after the weekend (usually Monday).

FICTION

1. You will be making 5 whole page illustrations based off of 5 separate quotes from your reading. Each illustration should take an entire page. Make sure that you write the quote, and the page number you got your quote from at the bottom of each illustration.

NONFICTION

1. What is this text about?
2. Summarize the main ideas in 5 sentences.

RL.3.7/RI.1.2

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Use Partial Quotients to Divide

Name _____

Find each quotient. Circle your answers in the number search. Answers can be written horizontally, vertically, or diagonally.

9	2	3	6	8
4	1	5	0	5
3	8	9	4	1
5	2	2	7	9
6	2	6	3	5

1. $972 \div 36 =$ _____
2. $1,425 \div 19 =$ _____
3. $294 \div 14 =$ _____
4. $2,516 \div 37 =$ _____
5. $1,562 \div 22 =$ _____
6. $1,080 \div 18 =$ _____
7. $2,280 \div 95 =$ _____
8. $1,862 \div 49 =$ _____

Complete the table below with your circled numbers. Numbers can appear as more than one factor.

2 is a factor	3 is a factor	4 is a factor	5 is a factor

Which number(s) are left out of the table? _____

Use Partial Quotients to Divide

Name _____

Review

You can use partial quotients to divide.

$$3,648 \div 64$$

$$\begin{array}{r} 64 \overline{) 3,648} \\ \underline{-2,560} \\ 1,088 \\ \underline{-640} \\ 448 \\ \underline{-448} \\ 0 \end{array} \quad \begin{array}{l} 40 \\ 10 \\ + 7 \\ \hline 57 \end{array}$$

It can help to work with multiples of 10.

$$3,648 \div 64 = 57$$

Find each quotient. Use the partial quotients algorithm to solve.

1. $882 \div 18 =$ _____

3. $2,405 \div 65 =$ _____

2. $946 \div 43 =$ _____

4. $1,988 \div 28 =$ _____

Charge It!

Cross-Curricular Focus: Physical Science

Many people do not really understand how **electricity** works. They just know that when they need power to run an appliance, they have to plug it into the wall.

Energy comes from charged particles that are moving around. Have you ever rubbed a balloon against your clothes to make it stick? Have you held a balloon or a comb over someone's head to watch his hair stand up straight? That's static electricity and electrically charged particles. But these particles don't do much unless we control their energy.

Static electricity builds up on certain materials. Other materials, though, let electrical charges flow through them. This creates an electric current. Electric current travels very easily through metals like copper, gold, silver, and aluminum. We call materials that electric current flows through easily **conductors**. Water is also a good conductor of electricity. That's why electrical charges can travel through people, too. There is water in every cell of a person's body. Electric current can travel through these cells.

Since metal is a good conductor of electricity, electrical wires are often made out of metal. Wiring can also be made out of non-metal materials, such as graphite.

Conductors have to be enclosed in a material that is an **insulator**. Insulators do not allow electric current to pass through them. The rubber coating that you see on electrical cords covers the metal. The electric current stays inside the cord so we can direct the current to the appliance that needs power. Other good insulators are glass and some plastics.

Name: _____

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

1) What are two materials that are good conductors of electricity?

2) How is static electricity different from electric current?

3) What could happen if the rubber coating on a power cord is damaged?

4) Is water a conductor or an insulator?

5) In your own words, explain the difference between a conductor and an insulator.

Estimate Quotients

Name _____

Review

When estimating a quotient, you may find it helpful to work with compatible numbers that are multiples of 10.

$$6,298 \div 72$$

6,298 can be rounded to 6,300 and 72 can be rounded to 70.
Both 6,300 and 70 are multiples of 10.

$70 \times 90 = 6,300$, so the estimate for $6,298 \div 72$ is about 90.

Estimate the quotients.

1. $6,302 \div 31$

5. $6,617 \div 59$

2. $2,700 \div 29$

6. $3,487 \div 52$

3. $8,105 \div 92$

7. $3,406 \div 20$

4. $1,480 \div 32$

8. $608 \div 10$

Estimate Quotients

Lesson 7-1 • Extend Thinking

Name _____

Estimate each quotient using a related multiplication equation and compatible numbers. Then match up the equal estimates. The first one is done for you. Show your work.

Column A	Column B
$3,198 \div 41$	$2,195 \div 19$
$40 \times 80 = 3,200$	$1,604 \div 19$
$8,109 \div 92$	$20 \times 80 = 1,600$
$4,409 \div 39$	$2,387 \div 20$
$4,499 \div 92$	$999 \div 49$
$3,601 \div 29$	$1,187 \div 42$
$699 \div 10$	$2,511 \div 49$
$5,022 \div 49$	$4,002 \div 38$
$1,496 \div 52$	$3,589 \div 38$
$805 \div 37$	$1,405 \div 22$

Practice Page: Division



If ...

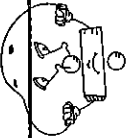
$3 \times 5 = 15$

$5 \times 3 = 15$

Then ...

$5 \overline{)15} = 3$

$3 \overline{)15} = 5$



1. $9 \times 3 = 27$

$3 \overline{)27} = \underline{\quad}$

$5 \times 2 = 10$

$2 \overline{)10} = \underline{\quad}$

$4 \times 3 = 12$

$3 \overline{)12} = \underline{\quad}$

$8 \times 3 = 24$

$3 \overline{)24} = \underline{\quad}$

2. $9 \times 7 = 63$

$7 \overline{)63} = \underline{\quad}$

$4 \times 5 = 20$

$5 \overline{)20} = \underline{\quad}$

$8 \times 6 = 48$

$6 \overline{)48} = \underline{\quad}$

$5 \times 1 = 5$

$1 \overline{)5} = \underline{\quad}$

3. $6 \times 6 = 36$

$6 \overline{)36} = \underline{\quad}$

$8 \times 2 = 16$

$2 \overline{)16} = \underline{\quad}$

$7 \times 5 = 35$

$5 \overline{)35} = \underline{\quad}$

$7 \times 8 = 56$

$8 \overline{)56} = \underline{\quad}$

4. $9 \times 6 = 54$

$6 \overline{)54} = \underline{\quad}$

$5 \times 6 = 30$

$6 \overline{)30} = \underline{\quad}$

$9 \times 8 = 72$

$8 \overline{)72} = \underline{\quad}$

$7 \times 3 = 21$

$3 \overline{)21} = \underline{\quad}$

Divide.

5. $9 \overline{)36}^4$

$4 \overline{)16}$

$8 \overline{)0}$

$5 \overline{)40}$

$9 \overline{)18}$

6. $2 \overline{)14}$

$9 \overline{)81}$

$7 \overline{)56}$

$1 \overline{)4}$

$7 \overline{)63}$

7. $8 \overline{)32}$

$6 \overline{)42}$

$2 \overline{)16}$

$8 \overline{)48}$

$3 \overline{)9}$



Practice Page: 3-Digit Division without Remainders

Divide.



95 R4

$5 \overline{)479}$

$\underline{-45}$

29

$\underline{-25}$

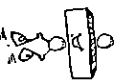
4

Subtract 45 from 47.

 $5 \times 9 = 45$

Subtract 25 from 29.

Because 4 is less than 5, the remainder is 4.



1. $2 \overline{)196}$

$4 \overline{)252}$

$8 \overline{)232}$

$3 \overline{)162}$

$5 \overline{)330}$

2. $6 \overline{)450}$

$8 \overline{)288}$

$4 \overline{)360}$

$5 \overline{)385}$

$7 \overline{)336}$

3. $3 \overline{)264}$

$9 \overline{)567}$

$7 \overline{)343}$

$6 \overline{)510}$

$8 \overline{)184}$



Conflict Over North American Lands

Cross-Curricular Focus: History/Social Sciences



The Age of Exploration lasted from the early 15th century until the middle of the 17th century. During this time period, European nations explored the world by sea. They wanted to trade goods with other people to make a profit. They also wanted to find shorter routes to their existing trade partners. Some adventurers wanted to find out information about the world. Cartographers were constantly revising maps based on the latest travels. Through the maps and journals of explorers, people of the known world improved their knowledge of geography.

Spain was the first European nation to claim land in the Americas in the 1560s. They were eager to get as much land as possible for Spain. Much of Mexico, South America, and Florida once belonged to Spain. England wanted to claim its share as well, arriving in North America in 1607. France claimed land in the area that is now Canada. Settlers from the Netherlands claimed the area that is now New York. The Spanish began claiming Californian land. They built the first mission in 1769 on the site that became the city of San Diego.

Why was there so much interest in the Americas? Many Native Americans were already living in the Americas. The area was rich in desirable resources. European nations valued the many **raw materials** that seemed to be in never-ending supply in North America. The English discovered tobacco, a crop that would finance the success of the early colonies. The Dutch from the Netherlands made a lot of money in the fur trade. They sold beaver furs at trading posts that were established along commonly traveled river and land routes. Spain claimed gold and silver from Aztec resources in Mexico.

With so many valuable resources to be had, there were many **conflicts** over North American lands. Colonies founded by different countries were located near each other. There were disagreements and fears between the settlers. Wars were fought to control areas that were particularly rich in resources. Native Americans were caught between the warring colonists. They were often seen as obstacles to be conquered.

Name: _____

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

1) Why did European nations send out so many explorers during the Age of Exploration?

2) Why do you think French is spoken in some parts of Canada?

3) Who were the early settlers of New York?

4) Which European nation was the first to claim land in the Americas?

5) Why were the Americas so desirable to the Europeans?

Relate Multiplication and Division of Multi-Digit Numbers

Lesson 7-2 • Extend Thinking

Name _____

You can make 36 groups of 24 from 864.

1. How many groups of 12 can you make from 864? _____

2. $36 \times 24 = 864$ and _____ $\times 12 = 864$. Describe any patterns you may notice about the factors.

3. How many groups of 108 can you make from 864? _____

4. $36 \times 24 = 864$ and $108 \times$ _____ $= 864$. Describe any patterns you may notice about the factors.

Use patterns to quickly solve these problems.

5. You can make 65 groups of 13 from 845. How many groups of 169 can you make?

6. You can make 42 groups of 27 from 1,134. How many groups of 81 can you make?

7. You can make 23 groups of 64 from 1,472. How many groups of 16 can you make?

Relate Multiplication and Division of Multi-Digit Numbers

Name _____

Review

Consider the equation, $234 \div 18 = k$.

To find the value of k , rewrite the equation as $k \times 18 = 234$.

Now we need to determine how many groups of 18 we can make from 234.

$$10 \times 18 = 180$$

$$3 \times 18 = 54$$

$180 + 54 = 234$, so for $234 \div 18 = k$, the answer is $k = 10 + 3$, or $k = 13$.

Determine how many groups of each unknown factor you can make in each equation. Show your work.

1. $270 \div 15 = m$

$$m \times 15 = 270$$

3. $693 \div 21 = p$

$$p \times 21 = 693$$

2. $496 \div 62 = n$

$$n \times 62 = 496$$

4. $612 \div 17 = q$

$$q \times 17 = 612$$

Using Estimation and Area Models to Divide

Name: _____

Check each answer by multiplying the divisor by the quotient. If the answer is incorrect, cross out the answer and write the correct answer.

Division Problems	Student Answers
1 $516 \div 12$	48 49
2 $837 \div 31$	27
3 $351 \div 13$	57
4 $918 \div 54$	22
5 $896 \div 32$	23
6 $1,482 \div 78$	14
7 $1,012 \div 11$	82
8 $1,344 \div 56$	24

Check: $12 \times 48 = 576$

9 Explain how you could know that the answers to two of the problems are incorrect without multiplying.

Estimating Quotients

Name: _____

Estimate each quotient.

- | | | |
|--|--------------------|--------------------|
| 1 $250 \div 52$ | 2 $2,500 \div 52$ | 3 $82 \div 41$ |
| 4 $802 \div 41$ | 5 $8,002 \div 41$ | 6 $789 \div 81$ |
| 7 $3,210 \div 78$ | 8 $6,912 \div 11$ | 9 $2,750 \div 28$ |
| 10 $5,675 \div 73$ | 11 $4,915 \div 69$ | 12 $6,205 \div 32$ |
| 13 $8,955 \div 29$ | 14 $4,140 \div 18$ | 15 $7,998 \div 91$ |
| 16 Estimate $752 \div 17$. What strategy did you use to solve the problem? Explain. | | |
| 17 Estimate $1,450 \div 24$. What strategy did you use to solve the problem? Explain. | | |

Name _____

Word Problems

Solve each problem. Show your work and check your answer.

1. A train traveled 130 miles in 2 hours. The same distance was traveled each hour. How far did the train travel each hour?
The train traveled _____ miles each hour.
2. There are 780 calories in 6 granola bars. How many calories are there in each granola bar?
Each granola bar has _____ calories.
3. A hospital ordered 213 new blankets. The blankets will be delivered in 3 equal shipments. How many blankets will be in each shipment?
Each shipment will have _____ blankets.
4. The school chorus has 108 members. How many rows of 12 members can be formed?
_____ rows of 12 members can be formed.
5. A factory filled 9,342 bottles in 3 hours. The same number of bottles were filled each hour. How many bottles were filled each hour?
_____ bottles were filled each hour.
6. Mr. Wagner has 288 bricks. He is building a new patio. How many rows of 9 bricks can he lay for the new patio?
Mr. Wagner can lay _____ rows of 9 bricks each.
7. Tina earned \$132.00 babysitting in 6 months. She earned the same amount each month. How much did Tina earn babysitting each month?
Tina earned \$ _____ each month.
8. There are 4,064 calories in 8 pints of strawberry ice cream. How many calories are there in each pint of strawberry ice cream?
There are _____ calories in each pint of ice cream.

1.	2.
3.	4.
5.	6.
7.	8.

Name _____

It's a Riddle!

Solve each problem. Look for the answer in the riddle below and write the letter of the problem on the line. Not all letters will be used.

C Marta takes 24 photos at the circus and 72 photos on her vacation. If each page in her scrapbook can hold 6 photos, how many pages can Maria fill?	I Carmen and Wayne sell 25 birdhouses at a craft fair. They share the money equally. If each birdhouse costs \$14, how much money will Carmen and Wayne each receive?
R José uses 3 flowers for each corsage he makes. He has orders for 18 corsages each from two different stores. How many flowers will he need?	L Mr. Davis sells sleeping bags. He has 30 red sleeping bags and 26 green sleeping bags to put on shelves. Each shelf can hold 8 sleeping bags. How many shelves can he fill?
Y Taren makes 62 chocolate chip cookies and 74 oatmeal cookies. If she places 8 cookies on a plate for the bake sale, how many plates will Taren need?	T Kaisha bought 10 bags of apples. There are 15 apples in each bag. If Kaisha repacks the apples into 5 bags, how many apples will be in each bag?
N Chan and his two sisters make and sell jewelry. They sell each piece of jewelry for \$9 and agree to share the money equally. If they sell 38 pieces of jewelry in all, how much money will each person receive?	E Linh orders 16 blueberry muffins and 24 cranberry muffins from a bakery. The bakery places 8 muffins in each package. How many packages will Linh have to pick up?

Which city has no people?

5 7 5 16 30 108 175 16 175 30 17