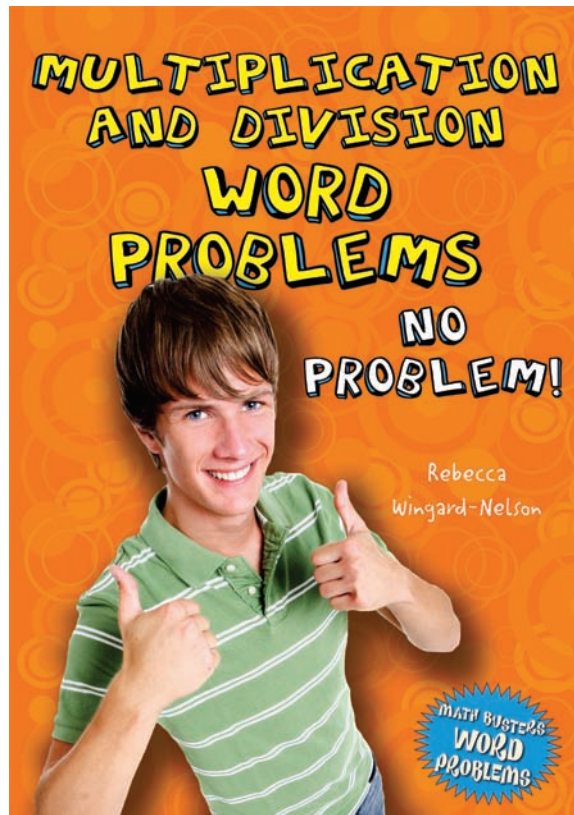


## Math Busters Word Problems Reproducible Worksheets

Reproducible Worksheets  
for:

# Multiplication and Division Word Problems No Problem!

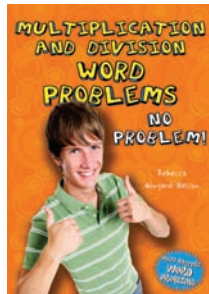


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# Math Busters Word Problems Reproducible Worksheets

Reproducible Worksheets for:

## Multiplication and Division Word Problems No Problem!



These worksheets practice math concepts explained in **Multiplication and Division Word Problems: No Problem!** (ISBN: 978-0-7660-3370-2), written by **Rebecca Wingard-Nelson**.

**Math Busters Word Problems** reproducible worksheets are designed to help teachers, parents, and tutors use the books from the **Math Busters Word Problems** series in the classroom and the home. The answers to the problems are contained in the Answers section starting on page 56.

Teachers, librarians, tutors, and parents are granted permission and encouraged to make photocopies of these worksheets.

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Name \_\_\_\_\_

Date \_\_\_\_\_

## Problem-Solving Steps

1. What are the four problem-solving steps?
2. What can you do to help yourself understand a question?
3. Name at least three plans you can use to solve math problems.
4. What should you do if your plan for solving a problem does not work?
5. How can reviewing the problem after you have an answer help you in the future?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Problem-Solving Steps

**Jacob and his two sisters paid \$8 each to enter a corn maze. How much did they pay in all?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Is the math correct?*

*What other plan could you use to solve this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Recognizing Multiplication

**A movie and video game rental store rents older games for \$4 and new games for \$9. Chase rented 3 new games. How much did Chase pay to rent the games?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Recognizing Multiplication

The freshman class is selling beeswax candles as a fund raiser. Trisha sold 6 boxes of candles. Each box holds 12 candles. How many candles did Trisha sell in all?

Yamin's garden has 5 rows of hot peppers with 4 plants in each row. How many hot pepper plants are in Yamin's garden?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Count

**BJ added a cell phone to his family's plan. His phone costs him \$5 a month. How much does his phone cost him over 6 months?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Count

When Allen goes to work, he spends \$2 each day for parking. How much does Allen spend for parking after 14 days of work?

Morgan spends 10 minutes each night doing shoulder exercises her physical therapist assigned. How many minutes does she spend a week on her shoulder exercises?



Name \_\_\_\_\_

Date \_\_\_\_\_

## Draw a Picture

**A vending machine package contains 2 sugar cookies. Michael ate 5 full packages. How many cookies did Michael eat? Draw a picture to help solve this problem.**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Draw a Picture

One pizza is cut into 8 slices. How many slices are in 4 pizzas? Draw a picture to help solve this problem.

Sara Jo filled 4 bowls with 4 cups of popcorn each. How many cups of popcorn did she have in all? Draw a picture to help solve this problem.

Name \_\_\_\_\_

Date \_\_\_\_\_

## Basic Facts

**A computer game allows you exactly 3 minutes to score as many points as you can. If you played the game 9 times, how many minutes did you spend playing?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Basic Facts

Molly's mom planted 7 bags of tulip bulbs. Each bag contained 4 large bulbs. How many bulbs did she plant in all?

Drew found movies that are regularly sold for \$12 on sale for \$8. He bought 8 of the movies that were on sale. How much did he spend?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Powers of Ten

The high school guidance office is encouraging students to attend the annual college fair by handing out college fair pencils. Each pencil costs the school 2¢. What is the total cost for 1000 pencils?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Powers of Ten

Cade has 160 pages of pictures on his Web site. Each page has 10 pictures. How many pictures are on Cade's Web site?

If Jaila reads 100 pages a night, how many pages will she have read in two weeks?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiples of Ten

There are 40 members in Jake's science club. Each member planted 8 trees as a community service project. How many trees did the club members plant in all?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiples of Ten

Daq ate 20 crackers. Each cracker has 30 carbohydrate grams. How many carbohydrate grams did Daq consume?

Harriet spent 50 minutes on an aerobic workout. How many seconds did she spend on the workout?



Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplication Properties

**A clarinet reed costs \$2 when the reeds are sold in a case of 3 reeds. The band has 16 clarinet players. How much would it cost for every player to buy a case of reeds?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplication Properties

Erin saved \$50 each week for 2 years. How much did Erin save in all?

Joquin bought 6 shirts.  $\frac{1}{6}$  of the shirts have long sleeves. How many shirts did he buy with long sleeves?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Break Apart

Students are rewarded with \$3 in food coupons every time they earn an A on a report card. Eddie had a total of 24 As this year. How many dollars in food coupons did he receive?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Break Apart

A student club has decided to provide holiday gifts for local families in need. Each of the 28 students is responsible for 4 gifts. How many gifts is the club providing in all?

Six cheerleaders each made 142 braided bracelets to sell at basketball games. How many bracelets did they make in all?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Estimation: Multiplication

**Brad drove 72 kilometers in one hour. About how many kilometers can he drive in 8 hours?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Estimation: Multiplication

Stephen has had 3 speeding tickets. Each ticket cost him \$82. About how much has Stephen paid in all for speeding tickets?

A group of 39 eighth-grade students went on a trip to Washington DC. Each student had a fee of \$518. About how much were the total charges for all of the students?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Larger Numbers

A school in Japan has a school year of 193 days. Arya has 3 full years left before she graduates. How many school days are there before Arya graduates?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Larger Numbers

There are an average of 1146 hours spent in school each year by students in the United States. How many hours will high school students spend in school over 4 years?

There are an average of 903 hours spent in school each year by students in Singapore. How many hours will elementary school students spend in school over 5 years?



Name \_\_\_\_\_

Date \_\_\_\_\_

## Partial Products

**Tickets for a concert are \$23 per person. If 108 people buy tickets, what is the total amount in ticket purchases?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Partial Products

A marathon check station has a stock of 48 cases of bottled water. Each case has 24 bottles. How many bottles of water are at the check station?

A mailman walks 13 blocks every day that he delivers his mail. If he delivers mail 253 days one year, how many blocks did he walk?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Decimals

**Ruth bought 6 tank tops. The price with tax for each tank top was \$7.18. How much did Ruth pay in all?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Decimals

Judy's house is 1.42 kilometers from Jaya's. Judy walked to Jaya's and then back home. How far did she walk?

The cost of one school lunch is \$2.25. Michael bought a school lunch 4 days last week. How much did he spend last week for school lunches?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Fractions

Shane works in a pizza shop. An order was placed for 8 pizzas. The customer wants  $\frac{1}{2}$  of the pizzas to be pepperoni,  $\frac{1}{8}$  of the pizzas to be mushroom only, and the rest to be cheese pizzas. How many cheese pizzas does he need for the order?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

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Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Fractions

There are 42 students in the 8th grade choir.  $\frac{5}{6}$  of the students are girls. How many of the 8th grade choir students are boys?

Of the 324 students graduating from high school,  $\frac{1}{2}$  plan to attend at least 4 years of college.  $\frac{1}{6}$  plan on attending a two-year college or trade school. How many of the graduates do not plan to attend a college or trade school?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Division

Cade helps coach a winter basketball league for elementary students. There are 54 students who are divided evenly into 6 teams. How many students are on each team?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Division

Jada bought 3 identical pairs of jeans. The total bill was \$69. How much did each pair of jeans cost?

The football team scored 42 points in the first half. All of the points were scored in touchdowns. How many touchdowns were scored? (Hint: A touchdown is worth 6 points.)



Name \_\_\_\_\_

Date \_\_\_\_\_

## Inverse Operations

**On a field trip to the park, students must stay in groups of 2. There are 16 students in all. How many groups are there?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Inverse Operations

Jeff wants to save \$50 in the next 5 weeks. How much does he need to save each week?

Suzy set up rows of 9 chairs each. There are 72 chairs in all. How many rows of chairs are there?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Long Division

**A travel club is spending a weekend in the city. The trip cost is \$96, and it is divided into three equal payments. How much is each payment?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does the answer match the questions?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Long Division

Jeannie and her 2 friends split a large bucket of hot wings evenly. There are 48 wings in a large bucket. How many wings did each person eat?

The directions on a 126-ounce container of juice concentrate container say to mix 6 ounces of the concentrate with water to make 1 gallon of juice. How many gallons of juice does the container of concentrate make?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Remainders

**There are 6 weeks in a grading period. Students earn a party for their class if each student reads at least 25 chapters at his or her reading level. On average, how many books does each student need to read each week?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Remainders

Harrison must work 104 hours in the month of March. There are 16 days that Harrison can work. How many hours per day will Harrison work if he works the same number of hours each day?

Larissa is 66 inches tall. Her baby sister is 24 inches long. How many times taller is Larissa than her baby sister?

## Interpreting Remainders

A boat livery rents paddle boats for 2-hour, 4-hour, and 8-hour excursions. The boats can hold up to three people, and there must be at least two people in each boat. If a group of 19 people are renting boats, what is the least number of paddle boats they can rent?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Interpreting Remainders

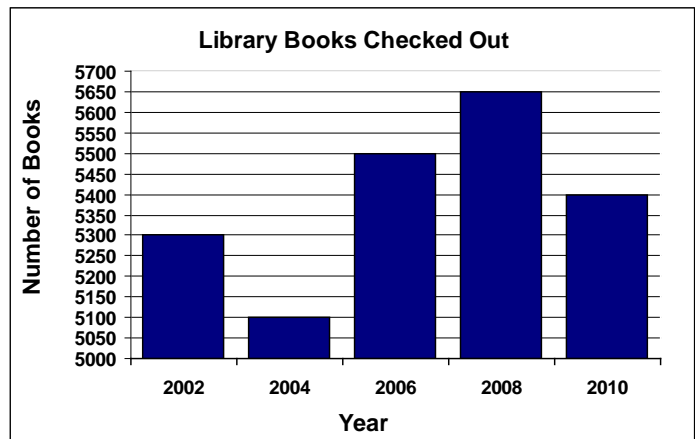
Bruce and his friends are going to a drive-in. There are 15 people going in all. Each car holds up to 4 people. If the first cars are filled as full as possible, how many people will be in the last car?

Trisha works in the gift wrapping department. She has a roll of ribbon that is 1,600 inches long. It takes 1 yard of ribbon to wrap each gift. How many gifts can Trisha wrap using the ribbon?



## Read a Graph

There are 9 months in a school year. Using the data shown, how many books were checked out on average per month in the 2010 school year?



Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How does the problem tell you to solve this problem?*

Solve the problem.

*Carry out your plan.*

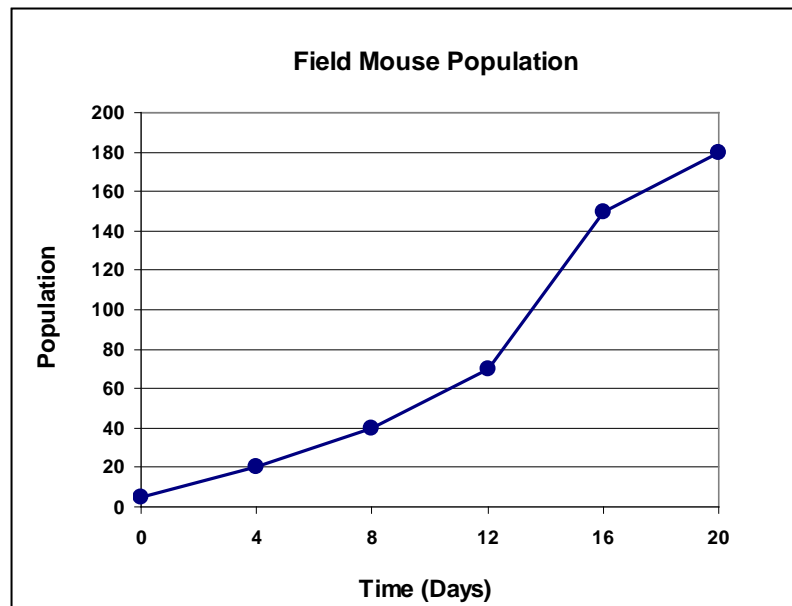
Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

## Read a Graph



A field mouse population began with 5 field mice. The growth of the population is shown in the graph. By day 20, how many times larger was the population than the beginning population?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Find a Pattern

**Three musicians distributed 1,200 advertisements for a concert. On average, how many advertisements did each musician distribute?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Find a Pattern

Jerald drove 350 miles in 5 days. On average, how many miles did he drive each day?

The pet shelter had a "dog wash" as a fund-raiser. They charged \$7 per dog, and earned \$630. How many dogs did they wash?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Guess and Check

**On faculty appreciation day, students made cupcakes for 468 faculty members. If 18 students each made the same number of cupcakes, how many did each student make?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Guess and Check

The state science fair had 256 projects displayed. There were 16 projects displayed in each row. How many rows of projects were on display?

A roller coaster holds up to 32 people per ride. There are 864 people standing in line. How many times will the roller coaster need to be run for everyone standing in line to have a ride?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing a Decimal

**Kari, Katelynn, and Morgan went out for dinner and split the bill evenly. The total bill was \$46.68. How much did each pay?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing a Decimal

A window has an area of 7.2 meters. The window is 3 meters tall. How wide is the window?

Tawni works at a cafe where the tips are divided equally among the waiters. Last night the 14 waiters took in \$761.60 in tips. How much did each waiter get in tips?



Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing by a Decimal

**A box of cereal has a total weight of 63 ounces. One serving size is 4.2 ounces. How many servings are there in the box of cereal?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing by a Decimal

Derick has \$41.60. He wants to buy blue gouramis for his fish tank. Each gourami costs \$5.20. How many of the fish can he buy?

-

Hair bands cost \$0.78 each. Sarafina has \$17.94. How many hair bands can she buy?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Powers of Ten: Decimals

Jeremy has 13,000 kilobytes (KB) of data files. He put the files into folders that contain 1,000 KB each, or one megabyte (MB). How many folders does Jeremy have?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Powers of Ten: Decimals

Jacinda made 100 necklaces for charity. She sold all of them and raised \$85.00. How much did she charge for each necklace?

One centimeter is equal to 10 millimeters. How many centimeters are equal to 520 millimeters?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing Fractions

Miss Brown's chemistry class has 12 boxes of molecular model parts. Today's model uses  $\frac{3}{4}$  of a box. How many models can be made?

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Dividing Fractions

Jodie made 8 sandwiches and cut each one into fourths to make finger sandwiches. How many finger sandwiches did she have?

Every morning before school Alexander swims  $\frac{1}{3}$  mile. How long will it take him to swim 50 miles?

Name \_\_\_\_\_

Date \_\_\_\_\_

## Estimation: Division

**The Athletics Boosters are selling \$5 raffle tickets. They need to raise \$1,172. About how many tickets do they need to sell to reach their goal?**

Read and understand the problem.

*What does the problem ask you to find?*

*What information do you need to solve the problem?*

Make a plan.

*How can you solve this problem?*

Solve the problem.

*Carry out your plan.*

Look back.

*Does your answer match the question?*

*Does the answer make sense?*

*Did your plan work for this problem?*

Name \_\_\_\_\_

Date \_\_\_\_\_

## Estimation: Division

The tables used for the fall sports banquet have 6 seats per table. There are 236 people who are planning to attend. Estimate the number of tables that must be set up.

Taryn donates to an organization that feeds children in impoverished countries. They estimate that it costs \$0.32 a day to feed one child. About how many days of food can \$15.00 provide?



## Answers

### Problem-Solving Steps

Page 2: 1. Read and understand the problem. Make a plan. Solve the problem. Look back.

2. Possible answers: Read the problem again. Find the meaning of words you do not understand. Write the problem in different words.

3. Possible answers: Write an equation. Make a diagram. Work backward.

4. Try a different plan. Don't give up.

5. It helps you know how to solve similar problems.

### Page 3: Read and understand the problem.

How much money Jacob and his two sisters paid to enter a corn maze.

The amount each person paid to enter the corn maze and the number of people.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.**  $8 \times 3 = 24$ . They paid \$24 in all.

**Look back.** Answers may vary.

### Recognizing Multiplication

#### Page 4: Read and understand the problem.

The amount Chase paid to rent games.

The number of games Chase rented and the cost for each game.

**Make a plan.** Possible answer: Draw a picture.

**Solve the problem.**  $9 \times 3 = 27$ . Chase paid \$27 in all.

**Look back.** Answers may vary.

Page 5: Trisha sold 72 candles in all.

There are 20 hot pepper plants in Yamin's garden.

## Count

### Page 6: Read and understand the problem.

The amount BJ's cell phone costs over 6 months.

The amount the cel phone costs each month.

**Make a plan.** Possible answer: Count on.

**Solve the problem.** The phone costs \$30 for 6 months.

**Look back.** Answers may vary.

Page 7: Allen spends \$28 for 14 days of parking.  
Morgan spends 70 minutes a week doing shoulder exercises.

Draw a Picture

Page 8: **Read and understand the problem.**

The number of sugar cookies Michael ate.

The number of packages of cookies and the number of cookies in a package.

**Make a plan.** Draw a picture.

**Solve the problem.** Michael ate 10 sugar cookies.

**Look back.** Answers may vary.

Page 9: There are 32 slices of pizza in 4 pizzas.  
Sara Jo had 16 cups of popcorn in all.

Basic Facts

Page 10: **Read and understand the problem.**

The number of minutes you spent playing a computer game.

The number of times you played the game and how long each game takes to play.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** You spent 27 minutes playing.

**Look back.** Answers may vary.

Page 11: Molly's mom planted 28 tulip bulbs.  
Drew spent \$64.

Powers of Ten

Page 12: **Read and understand the problem.**

The cost for all of the pencils.

The cost of one pencil and the number of pencils.

**Make a plan.** Possible answer: Mental math.

**Solve the problem.** The total cost for the pencils is \$20.00.

**Look back.** Answers may vary.

Page 13: There are 1,600 pictures on Cade's Web site.  
Jaila will have read 1,400 pages.

## Multiples of Ten

### Page 14: **Read and understand the problem.**

The number of trees the club planted in all.

The number of club members and the number of trees each member planted.

**Make a plan.** Possible answer: Mental math.

**Solve the problem.** The club members planted 320 trees in all.

**Look back.** Answers may vary.

### Page 15: Daq consumed 600 carbohydrate grams.

Harriet spent 3,000 seconds on the workout.

## Multiplication Properties

### Page 16: **Read and understand the problem.**

The cost for a case of reeds for every clarinet player.

The cost of a reed, the number of reeds in a case, and the number of clarinet players.

**Make a plan.** Possible answer: Write a number sentence.

**Solve the problem.** It would cost \$96 for every player to have a new case of reeds.

**Look back.** Answers may vary.

### Page 17: Erin saved \$5,200 in all.

Joquin bought one shirt with long sleeves.

## Break Apart

### Page 18: **Read and understand the problem.**

The number of dollars in food coupons that Eddie received.

The number of As Eddie received and the dollar amount of coupons rewarded for each A.

**Make a plan.** Possible answer: Break it apart.

**Solve the problem.** Eddie received \$72 in food coupons.

**Look back.** Answers may vary.

### Page 19: The club is providing 112 gifts in all.

The cheerleaders made 852 bracelets in all.

### Estimation: Multiplication

#### Page 20: **Read and understand the problem.**

About how many kilometers Brad can drive in 8 hours.  
The distance Brad can drive in one hour.

**Make a plan.** Use estimation.

**Solve the problem.** Brad can drive about 560 kilometers in 8 hours.

**Look back.** Answers may vary.

#### Page 21: Stephen has paid about \$240 for speeding tickets.

The total charges for all of the eighth-grade students were about \$20,000.

### Multiplying Larger Numbers

#### Page 22: **Read and understand the problem.**

The number of school days before Arya graduates.  
The number of school days in a year and the number of years until Arya graduates.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** Arya has 579 school days before she graduates.

**Look back.** Answers may vary.

#### Page 23: The students will spend 4,584 hours in school.

The students will spend 4,515 hours in school.

### Partial Products

#### Page 24: **Read and understand the problem.**

The total amount in ticket purchases.  
The cost per ticket and number of tickets.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** The total amount in ticket purchases is \$2,484.

**Look back.** Answers may vary.

#### Page 25: There are 1,152 bottles of water at the check station.

The mailman walked 3,289 blocks.

## Multiplying Decimals

Page 26: **Read and understand the problem.**

The amount Ruth paid for all of the tank tops.

The price for each top, and how many tops Ruth bought.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** Ruth paid \$43.08 in all.

**Look back.** Answers may vary.

Page 27: Judy walked 2.84 kilometers.

Michael spent \$9.00 for school lunches last week.

## Multiplying Fractions

Page 28: **Read and understand the problem.**

The number of cheese pizzas ordered.

The total number of pizzas, the fraction of the pizzas that are pepperoni and mushroom.

**Make a plan.** Possible answer: Make an easier problem.

**Solve the problem.** Shane needs 3 cheese pizzas.

**Look back.** Answers may vary.

Page 29: There are 7 students in the 8th grade choir that are boys.

108 of the students do not plan to attend a college or trade school.

## Division

Page 30: **Read and understand the problem.**

The number of students on each team.

The total number of students and the number of teams.

**Make a plan.** Possible answer: Draw a picture.

**Solve the problem.** There are 9 students on each team.

**Look back.** Answers may vary.

Page 31: Each pair of jeans cost \$23.

The team scored 7 touchdowns.

## Inverse Operations

Page 32: **Read and understand the problem.**

The number of groups of students.

The total number of students and the number in each group.

**Make a plan.** Possible answer: Work backward.  
**Solve the problem.** There are 8 groups of students.  
**Look back.** Answers may vary.

Page 33: Jeff needs to save \$10 each week.  
There are 8 rows of chairs.

### Long Division

Page 34: **Read and understand the problem.**

The amount of each payment.

The total cost and number of payments.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** Each payment is \$32.

**Look back.** Answers may vary.

Page 35: Each person ate 16 wings.  
The container of concentrate makes 21 gallons of juice.

### Remainders

Page 36: **Read and understand the problem.**

The average number of chapters each student needs to read per week.

The total chapters each student must read and the number of weeks.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** On average, each student must read  $4\frac{1}{6}$  chapters each week.

**Look back.** Answers may vary.

Page 37: Harrison will work  $6\frac{1}{2}$  hours each day.  
Larissa is  $2\frac{3}{4}$  times taller than her baby sister.

## Interpreting Remainders

Page 38: **Read and understand the problem.**

The least number of boats that can be rented.

The number of people in the group and the number of people who can be in a boat.

**Make a plan.** Possible answer: Draw a picture.

**Solve the problem.** The group must rent at least 7 paddle boats.

**Look back.** Answers may vary.

Page 39: There will be 3 people in the last car.

Trisha can wrap 44 gifts using the ribbon.

## Read a Graph

Page 40: **Read and understand the problem.**

The average number of books checked out per month in 2010.

The total number of books checked out and the number of months in the school year.

**Make a plan.** Possible answer: Read a graph.

**Solve the problem.** An average of 600 books were checked out each month in 2010.

**Look back.** Answers may vary.

Page 41: The field mouse population was 36 times larger on day 20 than the beginning population.

## Find a Pattern

Page 42: **Read and understand the problem.**

The average number of advertisements each musician distributed.

The total number of advertisements and the number of musicians.

**Make a plan.** Possible answer: Find a pattern.

**Solve the problem.** Each musician distributed an average of 400 advertisements.

**Look back.** Answers may vary.

Page 43: Jerald drove an average of 70 miles each day.

The pet shelter washed 90 dogs.

## Guess and Check

Page 44: **Read and understand the problem.**

The number of cupcakes each student made.

The total number of cupcakes and the number of students who made them.

**Make a plan.** Possible answer: Guess and check.

**Solve the problem.** Each student made 26 cupcakes.

**Look back.** Answers may vary.

Page 45: There were 16 rows of projects.

The roller coaster needs to run 27 times.

## Dividing a Decimal

Page 46: **Read and understand the problem.**

The amount each person paid for dinner.

The total amount paid and the number of people.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** Each person paid \$15.56.

**Look back.** Answers may vary.

Page 47: The window is 2.4 meters wide.

Each waiter got \$54.40 in tips.

## Dividing by a Decimal

Page 48: **Read and understand the problem.**

The number of servings in a box.

The size of a serving and the size of a box of cereal.

**Make a plan.** Possible answer: Write an equation.

**Solve the problem.** There are 15 servings in the box of cereal.

**Look back.** Answers may vary.

Page 49: Derick can buy 8 gouramis.

Sarafina can buy 23 hair bands.

## Powers of Ten: Decimals

Page 50: **Read and understand the problem.**

The number of folders Jeremy has.

The total amount of data and the amount in each folder.

**Make a plan.** Possible answer: Mental math.



**Solve the problem.** Jeremy has 13 folders.  
**Look back.** Answers may vary.

Page 51: Jacinda charged \$0.85 for each necklace.  
52 centimeters are equal to 520 millimeters.

### Dividing Fractions

Page 52: **Read and understand the problem.**

The number of models that can be made.

The number of boxes of parts, and how much of a box each model uses.

**Make a plan.** Possible answer: Draw a diagram.

**Solve the problem.** 16 models can be made.

**Look back.** Answers may vary.

Page 53: Jodie had 32 finger sandwiches.  
It will take Alexander 150 days to swim 50 miles.

### Estimation: Division

Page 54: **Read and understand the problem.**

The approximate number of tickets they need to sell to reach their goal.

The amount they need to raise and the price per ticket.

**Make a plan.** Estimation.

**Solve the problem.** They need to sell about 240 raffle tickets.

**Look back.** Answers may vary.

Page 55: About 40 tables must be set up.  
\$15.00 will provide food for about 50 days.