

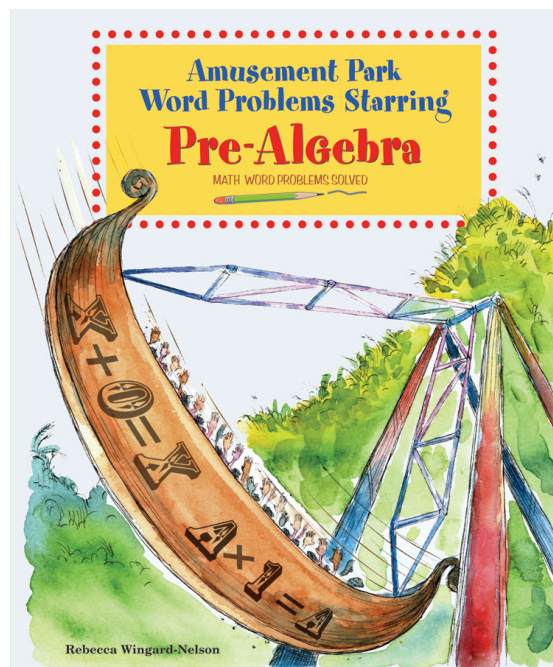
MATH WORD PROBLEMS SOLVED



Math Word Problems Solved Reproducible Worksheets

Reproducible Worksheets
for:

Amusement Park Word Problems Starring Pre-Algebra

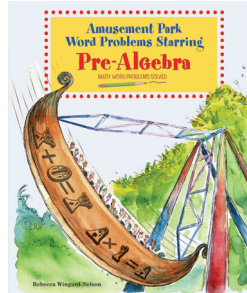


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Math Word Problems Solved Reproducible Worksheets

Reproducible Worksheets for:

Amusement Park Word Problems Starring Pre-Algebra



These worksheets practice math concepts explained in **Amusement Park Word Problems Starring Pre-Algebra** (ISBN: 978-0-7660-2922-4), written by **Rebecca Wingard-Nelson**.

Math Word Problems Solved reproducible worksheets are designed to help teachers, parents, and tutors use the books from the Math Word Problems Solved series in the classroom and the home. The answers to the problems are contained in the Answers section starting on page 38.

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Problem-Solving Steps

Here's the problem.

The highest point on the tallest steel roller coaster is 456 feet. The highest point on the tallest wooden roller coaster is 218 feet. How much higher is the steel roller coaster's highest point?

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Is the math correct?

What other plan could you use to solve this problem?

Problem-Solving Steps

Here's the problem.

There are 27 people waiting in front of Derick to get on a corkscrew roller coaster. The next set of cars takes 16 people onto the ride. How many people are still in line in front of Derick?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Simone rode the teacup ride 3 times. Each ride took 2 ride tickets. How many ride tickets did Simone use on the teacup ride?

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Clue Words

Here's the problem.

Tim has ridden 14 different steel roller coasters and 8 different wooden roller coasters. How many more steel roller coasters has he ridden than wooden ones?

What clue word is used in this problem?

What operation should you use?

Here's the problem.

Tim has ridden 14 different steel roller coasters and 8 different wooden roller coasters. Combined, how many different roller coasters has Tim ridden?

What clue word is used in this problem?

What operation should you use?

Want to do more? See if you can go back and solve the problems using the four problem-solving steps.

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Clue Words

Here's the problem.

The wave pool takes a 10-minute break each hour so that lifeguards can check the pool. If the wave pool is open 9 hours during the day, how many minutes are spent on break?

What clue word is used in this problem?

What operation should you use?

Here's the problem.

Harold spent 54 minutes on the chairlift touring the park. If each ride took exactly 9 minutes, how many times did Harold ride the chairlift?

What clue word is used in this problem?

What operation should you use?

Want to do more? See if you can go back and solve the problems using the four problem-solving steps.

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Clue Words

Here's the problem.

It takes two quarters to play one game of Skee-Ball at the fair. How many quarters do you need to play twice?

What clue word is used in this problem?

What operation should you use?

Here's the problem.

Kaitlyn had \$50.00 to spend at the amusement park. The admission fee was \$26.00. After paying admission, how much does Kaitlyn have left?

What clue word is used in this problem?

What operation should you use?

Want to do more? See if you can go back and solve the problems using the four problem-solving steps.

Clue Words

Here's the problem.

The drop on a waterslide was 31 feet. The ride was improved to increase the drop by 7 feet. How high is the new drop?

What clue word is used in this problem?

What operation should you use?

Here's the problem.

Riders on the spooky train are divided into groups of 4 in each cart. How many carts are needed for 28 riders?

What clue word is used in this problem?

What operation should you use?

Want to do more? See if you can go back and solve the problems using the four problem-solving steps.

More Than One Operation

Here's the problem.

The Cleaver family found a food stand that sold whole pizzas and pizza by the slice. They bought two whole pizzas that contained six slices each, plus two more slices. How many slices of pizza did they buy in all?

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Could you have solved this problem a different way?

More Than One Operation

Here's the problem.

To throw three balls costs \$2 at the softball toss game. The Griswalds spent \$18 at the softball toss game. How many balls did they throw?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Esteban rode the flying swings 3 times with his sister and 4 times with his girlfriend. Each ride cost two tickets. How many tickets did Esteban use on the flying swings? (Esteban did not use his own tickets for his sister or girlfriend to ride.)

Draw a Picture

Here's the problem.

Brijesh won a stuffed penguin at the balloon game. The game board had 12 rows of balloons with 8 balloons in each row. How many balloons were on the game board?

Draw a picture to solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

Check your answer using an equation.

Draw a Picture

Here's the problem.

Nadia bought a ticket for free frozen drink refills all day at the park. She had 3 strawberry drinks, 6 banana drinks, and 2 mango drinks. How many frozen drinks did Nadia have in all? Draw a picture to solve this problem.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Lily spent 12 minutes standing in line for the bumper boats. Then she spent another 8 minutes waiting in her boat while the attendant helped get everyone seated. How long did Lily wait in all? Draw a picture to solve this problem.

Mental Math

Here's the problem.

Anton rode the Gravitron 9 times by himself, 18 times with his friends, plus 1 more time with his little sister. How many times did he ride in all? Use mental math.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Did you start with the right numbers?

Mental Math

Here's the problem.

There are 3 transportation rides, 30 thrill rides, and 17 kiddie rides at one amusement park. What is the total number of rides? Use mental math.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Callie rode the pirate ship four times. She spent 4 minutes in line the first time, 18 minutes in line the second time, 6 minutes in line the third time, and 2 minutes in line the fourth time. Use mental math to find how much time Callie spent in line for the pirate ship ride all together.

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Hidden Information

Here's the problem.

**Sabrina and 3 friends rode on the log flume.
All of their feet got wet. How many feet
got wet on their log flume ride?**

Read and understand the problem.

What do you know?

What are you trying to find?

What hidden information is in the problem?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Did you include units in your answer?

Hidden Information

Here's the problem.

Nathan tried a dozen times to win a prize by throwing a basketball through a hoop. Each throw cost him two dollars. How much did Nathan spend throwing a basketball?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A new cartoon theme park has been open for two weeks and three days. How many days has the park been open?

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Too Much Information

Here's the problem.

Kari won 2 goldfish by throwing little balls into fishbowls. She paid \$2.00 per ball for 3 balls. How much did Kari spend at the fishbowl game?

Read and understand the problem.

What do you know?

What are you trying to find?

What do you need to know to solve the problem?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Check you answer using addition.

Too Much Information

Here's the problem.

Gabe is 52 inches tall. He rode three waterslides, the bumper boats twice, the scrambler six times, and the Ferris wheel once. You must be 54 inches tall to ride the Enterprise. How much taller must Gabe be to ride the Enterprise?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A one-day pass to the amusement park costs \$40. A three-day pass costs \$90. A one-person season pass costs \$120. A family season pass costs \$300. How much are two three-day passes?

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Find a Pattern

Here's the problem.

Stevie's dad waved to her every time she passed him as she rode the carousel. After one ride, she had passed him 12 times. After two rides, she had passed him 24 times. Stevie took 6 rides on the carousel. How many times did she pass her dad?

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Is the math correct?

What other plan could you use to solve this problem?

Find a Pattern

Here's the problem.

On the tunnel-of-love ride, eight people can ride in two boats and twelve people can ride in three boats. How many people can ride in ten boats?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

When the park had been open one hour, 120 people had ridden the scrambler. After two hours, 240 people had ridden the scrambler. If this trend continues, how many people will have ridden the scrambler when the park has been open five hours?

Write an Expression

Here's the problem.

Trina stood in line for 20 minutes to ride the Ferris wheel. Her ride was 20 minutes long. Write an expression that shows how to find the difference in minutes between Trina's time in line and her time on the ride.

Read and understand the problem.

What do you know?

What are you trying to find?

Are there any clue words in the problem?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Write an Expression

Here's the problem.

Trina stood in line for 20 minutes to ride the Ferris wheel. Her ride was 20 minutes long. Write an expression that shows how many minutes it was from the time Trina got in line until she got off the ride.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

In an animal show, each animal spends four minutes on stage. There are eight animals in the show. Write an expression for how many minutes animals are on the stage.

Variable Expressions

Here's the problem.

Passes to an amusement park cost \$39.75 each. Write an expression to show the cost of a pass with tax. Use the letter t to represent the tax amount.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Read the problem again. Did you follow the directions?

Variable Expressions

Here's the problem.

There are 27 balloons on a game board. April broke some of the balloons with darts. Write an expression to show the number of balloons that are left. Use the letter b to represent the broken balloons.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

There are some water rides and some non-water rides at a park. Write an expression for the sum of the rides. Use the letter w to represent the water rides and n for the non-water rides.

More Than One Question

Here's the problem.

Eli went down the giant slide 12 times, got a drink, then went down the slide some more times. Write an expression for how many times Eli went down the slide in all. Then find the total number of times he went down the slide if he went down 12 more times after his drink.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Is the math correct?

More Than One Question

Here's the problem.

Olivia rode the bumper cars six times. Each time she rode, she bumped into the same number of other cars. Find the number of cars she bumped in all if she bumped 12 cars each ride. Find the number of cars she bumped in all if she bumped 20 cars each ride.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Eight friends rode together on a ride. Some of them rode in a red cart. Write an expression to find how many friends did not ride in a red cart. If three friends rode in a red cart, how many did not ride in a red cart?

Related Equations

Here's the problem.

There are 39 people riding in the bumper boats. Each boat has 3 seats. There are 13 boats. Write a division equation that matches this problem, then write a related multiplication equation.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

Did you answer the right question?

Did you write two equations?

Are the equations you wrote true?

Related Equations

Here's the problem.

Four girls slid into the seat on a spinning dragon ride. Then two boys also slid in. There were six people in the dragon in all. Write an addition equation that matches this problem, then write a related subtraction equation.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A food stand started the day with 360 bottles of water.

It sold 326 bottles of water and had 34 bottles left.

Write a subtraction equation that matches this problem, then write a related addition equation.

Solution Equations

Here's the problem.

Two people can ride on the log flume together if they weigh less than 200 pounds total. Jan, who weighs 95 pounds, got into a raft. Chloe got into the raft with Jan. Together, they weighed 195 pounds. How much does Chloe weigh? Write a situation and a solution equation to solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

Are there any clue words?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

Check your answer using the situation equation.

Solution Equations

Here's the problem.

There were 27 girls and some boys on a flying saucer ride. The total number of riders was 40. How many boys were on the ride? Write a situation and a solution equation to solve this problem.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Kendall bought six shaved ice drinks that each cost the same amount. He spent a total of \$18 on shaved ice drinks. How much was each drink? Write a situation and a solution equation to solve this problem.

Pictures and Equations

Here's the problem.

In one mirror maze, there are 60 walls. Some of the walls are mirrored glass. The remaining 21 walls are clear glass. How many mirrored glass walls are there? Write an equation, then use a place-value drawing to help solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

What other way could you solve this problem?

Is the answer the same?

Pictures and Equations

Here's the problem.

You can trade 3 large prizes for one super-size prize. You can trade 6 medium prizes for one large prize. How many medium prizes do you need to trade for one super-size prize? Draw a picture, then write an equation to solve this problem.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

In one afternoon, 122 people walked through a fun house. Of those, 64 were adults. How many people who walked through the fun house were not adults? Draw a picture, then write an equation to solve this problem.

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Keep It Equal

Here's the problem.

You can be no more than 48 inches tall to ride the flying elephants. Ana can grow another 4 inches and still ride the flying elephants. How tall is Ana now? Write an equation with a variable to solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem tell you to use?

Solve the problem.

Carry out your plan.

Look back.

Put your answer into the original equation to check your math.

Keep It Equal

Here's the problem.

You can be no more than 48 inches tall to ride the flying elephants. Pei is 5 inches too tall to ride the flying elephants. How tall is Pei? Write an equation with a variable to solve this problem.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

The adult entrance fee to a water park is \$40. A group of adults spent \$280 to enter the park. How many adults were in the group? Write an equation with a variable to solve this problem.

Use a Formula

Here's the problem.

The kiddie pool is a square pool with a side length of 24 feet. Jorge's mom walked the whole way around the kiddie pool one time. How far did she walk? Use the formula for the perimeter of a square ($P = 4s$) to solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

What plan does the problem ask you to use?

Solve the problem.

Carry out your plan.

Look back.

What do the variables (P and s) in the formula stand for?

Why or why not?

Use a Formula

Here's the problem.

Cotton candy is made from a powdery sugar mixture. One box containing the sugar is 8 inches long, 10 inches wide, and 4 inches high. What is the volume of the box? Use the formula for the volume of a box ($V = lwh$). Hint: The answer units are cubic inches.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A roller coaster traveled at an average speed of 50 feet per second for 104 seconds. How many feet did it travel? Use the formula: $distance = speed \times time$, or $d = st$.

Logical Reasoning

Here's the problem.

Sam, Tina, and Myra are waiting in line for the chair swing. Tina is directly behind Sam. AJ cuts in line directly in front of Sam. Myra is somewhere behind Sam. Of the four friends, who is last in line?

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Is the math correct?

Logical Reasoning

Here's the problem.

The Tilt-A-Whirl, Tower of Doom, and Sea Fury have different heights you must be to ride. You do not need to be as tall to ride the Sea Fury as you do to ride the Tower of Doom. You must be taller to ride the Sea Fury than you must be to ride the Tilt-A-Whirl. List the rides in order by required height from shortest to tallest.

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

The prices for a hot dog, a popcorn, and an ice cream are \$2, \$3, and \$4. The hot dog costs less than the ice cream. The popcorn costs the most. What is the cost of the ice cream?

Answers

Problem-Solving Steps

Page 2: The steel roller coaster's highest point is 238 feet higher than the wooden roller coaster's highest point.

Page 3: There are still 11 people in line in front of Derick.
Want to try another one? Simone used 6 tickets on the teacup ride.

Clue Words

Page 4: Clue words: how many more; operation: subtraction

Clue word: combined; operation: addition

Want to do more? Tim has ridden on 6 more steel roller coasters.
Tim has ridden on 22 roller coasters combined.

Page 5: Clue word: each; operation: multiplication

Clue words: each; operation: division

Want to do more? 90 minutes are spent on break.
Harold rode the chairlift 6 times.

Page 6: Clue word: twice; operation: multiplication

Clue word: left; operation: subtraction

Want to do more? You need 4 quarters to play twice.
Kaitlyn has \$24.00 left.

Page 7: Clue word: increase; operation: addition

Clue word: divided; operation: division

Want to do more? The new drop is 38 feet.
28 riders need 7 carts.

More Than One Operation

Page 8: The Cleaver family bought 14 slices of pizza.

Page 9: They threw 27 balls.

Want to try another one? Esteban used 14 tickets on the flying swings.

Draw a Picture

Page 10: There were 96 balloons on the game board.

Page 11: Nadia had 11 frozen drinks in all.

Want to try another one? Lily waited 20 minutes in all.

Mental Math

Page 12: Anton rode the Gravitron 28 times in all.

Page 13: The total number of rides is 50.

Want to try another one? Callie spent 30 minutes in line all together.

Hidden Information

Page 14: Eight feet got wet.

(Hidden information: Each person has two feet.)

Page 15: Nathan spent \$24 throwing a basketball.

(Hidden information: A dozen is 12.)

Want to try another one? The park has been open 17 days.

(Hidden information: A week is seven days.)

Too Much Information

Page 16: Kari spent \$6.00 at the fishbowl game.

Page 17: Gabe must be two inches taller to ride the Enterprise

Want to try another one? Two three-day passes cost \$180.

Find a Pattern

Page 18: Stevie passed her dad 72 times.

Page 19: Forty people can ride in ten boats.

Want to try another one? 600 people will have ridden the scrambler.

Write an Expression

Page 20: $20 - 20$

Page 21: $20 + 20$

Want to try another one? 8×4 , or 4×8

Variable Expressions

Page 22: $\$39.75 + t$

Page 23: $27 - b$

Want to try another one? $w + n$

More Than One Question

Page 24: $12 + s$; Eli went down the slide 24 times.

Page 25: If Olivia bumped 12 cars each time, then she bumped 72 cars in all. If

Olivia bumped 20 cars each time, then she bumped 120 cars in all.

Want to try another one? $8 - f$; five friends did not ride in a red cart.

Related Equations

Page 26: $39 \div 3 = 13$; $3 \times 13 = 39$ or $13 \times 3 = 39$

Page 27: $4 + 2 = 6$; $6 - 2 = 4$ or $6 - 4 = 2$

Want to try another one? $360 - 326 = 34$; $34 + 326 = 360$ or
 $326 + 34 = 360$

Solution Equations

Page 28: Situation equation: $95 + w = 195$; solution equation: $w = 195 - 95$
Chloe weighs 100 pounds.

Page 29: Situation equation: $27 + b = 40$; solution equation: $b = 40 - 27$

There were 13 boys on the ride.

Want to try another one? Situation equation: $6 \times d = 18$

Solution equation: $d = 18 \div 6$

Each drink cost \$3.

Pictures and Equations

Page 30: $60 - m = 21$

There are 39 mirrored glass walls.

Page 31: You need 18 medium prizes to trade for one super-size prize.

Want to try another one? 58 people who walked through the fun house were not adults.

Keep It Equal

Page 32: $a + 4 = 48$

Ana is 44 inches tall now.

Page 33: $p = 48 + 5$

Pei is 53 inches tall.

Want to try another one? $a \times \$40 = \280
7 adults were in the group.

Use a Formula

Page 34: Jorge's mom walked 96 feet.

Page 35: The box has a volume of 320 cubic inches.

Want to try another one? The roller coaster traveled 5,200 feet.

Logical Reasoning

Page 36: Myra is last in line.

Page 37: Tilt-A-Whirl, Sea Fury, Tower of Doom

Want to try another one? The ice cream costs \$3.