

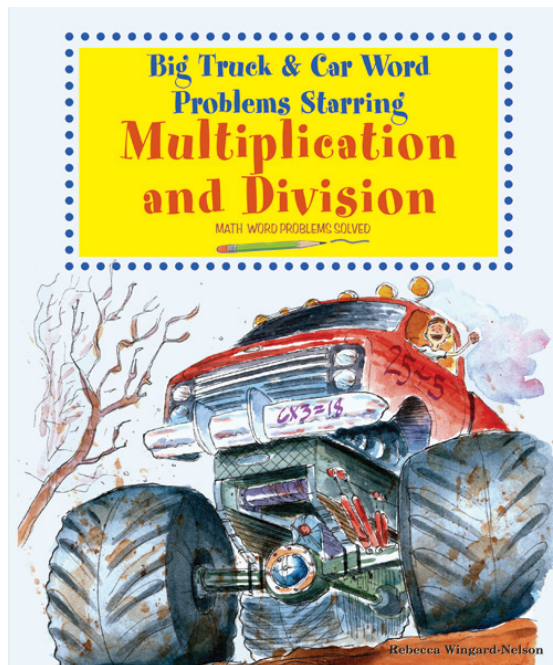
MATH WORD PROBLEMS SOLVED



Math Word Problems Solved Reproducible Worksheets

Reproducible Worksheets
for:

Big Truck and Car Word Problems Starring Multiplication and Division

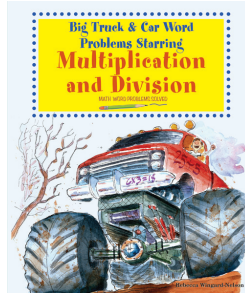


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Math Word Problems Solved Reproducible Worksheets

Reproducible Worksheets for:

Big Truck and Car Word Problems Starring Multiplication and Division



These worksheets practice math concepts explained in **Big Truck and Car Word Problems Starring Multiplication and Division** (ISBN: 978-0-7660-2918-7), 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.

Four garbage trucks each dumped 7 tons of garbage into a pile. How much does the pile of garbage weigh?

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.

A garbage truck picked up 3 bags of garbage at each of the 10 houses on Rebecca's street. How many bags were collected in all?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Cecil helped his dad collect garbage for 5 days. If his dad paid him 4 dollars each day, how much did Cecil earn?

Equations

Here's the problem.

A skid loader made 2 trips from a truck to a warehouse. It moved 4 crates of watermelons on each trip. How many crates of watermelons did the skid loader move?

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?

Equations

Here's the problem.

A pallet lifter moved boxes of cabinets to a high storage shelf. There were 6 stacks with 4 boxes in each stack. How many boxes of cabinets did the pallet lifter move?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A landscaping company loaded 4 pallets of large stones onto a truck with a pallet lifter. There were 10 stones on each pallet. How many stones were loaded onto the truck?

Is This Multiplication?

Here's the problem.

There are 5 lug nuts on each tire of a race car. During a pit stop, 2 of the tires are changed. How many lug nuts are on the 2 tires?

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?

Is the math correct?

What other plan could you use to solve this problem?

Is This Multiplication?

Here's the problem.

A race car driver signed up for 3 different races. All 4 tires had to be changed during each race. How many tires were changed for the 3 races?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

The racetrack concession has a bottled water machine. It was filled with 6 cases of water 3 times on the day of the race. How many cases were used?

Is This Division?

Here's the problem.

An excavator dug out 32 cubic yards of coal in 8 hours. On average, how many cubic yards of coal did it dig in an hour?

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?

Is the math correct?

Is This Division?

Here's the problem.

A bulldozer moved 24 tons of dirt in 3 hours. On average, how many tons of dirt were moved per hour?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Four backhoe operators filled 20 trucks with topsoil. If each filled the same number of trucks, how many trucks did each backhoe operator fill?

Inverse Operations

Here's the problem.

A feller buncher cuts and stacks trees. A feller buncher operator put 72 trees into stacks of 8 trees each. How many stacks were there?

Read and understand the problem.

What do you know?

What are you trying to find?

What kind of problem is this?

Make a plan.

How can you solve this problem?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

Check your math using the inverse operation.

Inverse Operations

Here's the problem.

Five feller bunchers each cut the same number of trees. Together they cut a total of 30 trees. How many trees did each feller buncher cut?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A skidder moves 21 heavy trees to where they can be loaded onto trucks. If the skidder moves 3 trees at a time, how many trips does it make?

Draw a Picture

Here's the problem.

A snowplow took 4 minutes to clear snow from a mile of road. At this rate, how long would it take to clear 7 miles of road? Draw a picture to help solve this problem.

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?

Draw a Picture

Here's the problem.

Tyra's dad used his plow to clear snow from driveways on 2 streets in their neighborhood. If he cleared 8 driveways on each street, how many driveways did he clear?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

With his snowplow, Tyra's dad took 10 minutes to clear snow from one driveway. At this rate, how many minutes would it take him to clear snow from 8 driveways?

Make a Model

Here's the problem.

A Zamboni ice resurfacer is run 2 times during every hockey game. During one season, the fans got to watch the Zamboni 18 times. How many games were played that season? Use a model to help solve this problem.

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.

Did you include units in your answer?

What other plan could you use to solve this problem?

Make a Model

Here's the problem.

At each hockey game, a Zamboni ice resurfacer travels a path that is 2 miles long. How many games does it take for the Zamboni to travel 14 miles?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A Zamboni ice resurfacer can travel about 9 miles per hour. At this rate, how many hours would it take for a Zamboni to travel 45 miles?

Ones

Here's the problem.

A street sweeper runs a route that cleans 35 streets. If it runs the route one time in a week, how many streets does it clean each week?

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?

Ones

Here's the problem.

A street sweeper drops off leaf mulch at a landfill 8 times each day. The street sweeper ran one day last week. How many times did it drop off mulch last week?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A full storage bag on a mulching lawn mower was emptied one time. If 3 cubic feet of mulch was emptied in all, how much does the storage bag hold?

Zeros

Here's the problem.

A dump truck made 23 trips from a gravel pit to a construction site with zero bananas in the truck on each trip. How many bananas did the dump truck carry in all?

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?

Is the math correct?

What other plan could you use to solve this problem?

Zeros

Here's the problem.

A dump truck made 10 trips from a sand pit to a water park with the same number beach balls in the truck on each trip. If there were zero beach balls in all, how many were on the truck in each trip?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A dump truck made 14 trips from a coal mine to a power plant with zero shovels in the truck on each trip. How many shovels did the dump truck carry in all?

Find The Pattern

Here's the problem.

In one hour, an asphalt paving truck laid 6 yards of new road. In two hours, it laid 12 yards of road, and after four hours, there were 24 yards of new road. If this trend continued, how much new road would there be after six hours of work?

Read and understand the problem.

What do you know?

What are you trying to find?

Make a plan.

How can you solve this problem?

What pattern do you see in the information?

Solve the problem.

Carry out your plan.

Look back.

Does your answer make sense?

What other plan could you use to solve this problem?

Find a Pattern

Here's the problem.

On one driveway, a paving truck operator used 2 tons of asphalt. On two driveways, he used 4 tons, and on three driveways, he used 6 tons. How many tons of asphalt would be used on six driveways?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

In one day, a paving truck operator worked 8 hours. In two days, he worked 16 hours, and after four days he worked 32 hours.

At this rate, how many hours will he have worked after 5 days?

Mental Tens

Here's the problem.

It costs about \$6,000 to run a quarter-mile race in one dragster. If the race takes 6 seconds, how much does it cost per second?

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?

Mental Tens

Here's the problem.

The racetrack stadium can seat 25,000 fans. If the seats are divided into 5 equal sections, how many fans can sit in each section?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

In 3 days at the racetrack, the concession stand made \$9,000 in hot dog sales. On average, how much money was made on hot dog sales each day?

Multiplication Equations

Here's the problem.

A crane was used to demolish a 9-story building. Each story is 10 feet high. To smash the top of the building, how high was the wrecking ball? Write an equation to solve this problem.

Read and understand the problem.

What do you know?

What are you trying to find?

What kind of problem is this?

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?

Multiplication Equations

Here's the problem.

A wrecking ball was used to demolish a 7-story apartment building. There were 60 windows on each story. How many windows were demolished?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A crane operator spent 3 hours tearing down one section of wall. If it takes the same amount of time for each section, how long will it take the operator to tear down 12 sections of wall?

Place Value and Multiplication

Here's the problem.

A big rig has 18 wheels. There are 5 big rigs crossing a long bridge. How many wheels are on the bridge?

Read and understand the problem.

What do you know?

What are you trying to find?

What kind of problem is this?

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?

Place Value and Multiplication

Here's the problem.

If 4 big rigs are each loaded with 24 crates of watermelons, how many crates are loaded in all?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A big truck has 2 fuel tanks. If the driver fills each tank with 38 gallons of fuel, how many gallons of fuel are there in all?

Division Equations

Here's the problem.

The space shuttle transport can travel 3 kilometers per hour when it does not have a load. How many hours would it take the transport to move 27 kilometers?

Write an equation to solve this problem.

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?

Division Equations

Here's the problem.

The transporter has 8 tracks with an equal number of tracks on each of its 4 corners. How many tracks are on each corner? 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?

The transporter has 4 generators that send power to 16 motors. If each generator sends power to the same number of motors, how many motors does each generator run?

Place Value and Division

Here's the problem.

A box truck is used by an appliance store for deliveries. It can carry 6 refrigerators per trip. How many trips are needed to deliver 78 refrigerators?

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?

Place Value and Division

Here's the problem.

If a box truck can travel 8 miles on a gallon of diesel fuel, how many gallons of diesel fuel will it take to go 176 miles?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A box truck is loaded with 42 televisions. The televisions are put in stacks of 3 each. How many stacks are there?

Reminders

Here's the problem.

**Standing up, a monster truck tire is 66 inches tall.
Standing up, a CD is 5 inches tall. How many CDs,
standing on top of each other, would it take to make a
stack at least as tall as a monster truck?**

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?

Remainders

Here's the problem.

Frederick wants a remote-control monster truck that costs \$67. If he saves \$7 each week, how many weeks will it take for him to have enough money to buy the monster truck?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

Candidates for fair queen are going to ride in monster trucks in a parade. There are 11 candidates, and 3 can ride in each truck. How many trucks are needed?

Break It Apart

Here's the problem.

If a road header cuts 3 feet per hour of tunnel from hard rock and 6 feet per hour from softer rock, how long would it take to cut a tunnel that runs through 12 feet of hard rock and 24 feet of softer rock?

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?

Break It Apart

Here's the problem.

A road header cut 5 feet of tunnel per hour for 8 hours each day. If the road header operated for 3 days, how many feet of tunnel did it cut?

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A mining drill cut through 4 feet of soft stone in 2 hours. It takes twice as long to cut through hard stone as it does to cut through soft stone. How long will it take the drill to cut through 3 feet of hard stone?

Estimation

Here's the problem.

A bucket-wheel excavator is used for surface mining. It is over 300 feet tall. A demolition excavator is about 83 feet tall. About how many times taller is the bucket-wheel excavator than the demolition excavator?

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?

Estimation

Here's the problem.

A bucket-wheel excavator has 18 buckets. Each bucket can hold over 71 cubic feet of dirt. About how much dirt can all of the buckets hold together? (Round to the nearest tens.)

Read and understand the problem.

Make a plan.

Solve the problem.

Look back.

Want to try another one?

A mini-excavator is only 28 inches wide. The bucket-wheel excavator is about 3,000 inches wide. About how many times wider is the bucket-wheel excavator than the mini-excavator?

Answers

Problem-Solving Steps

Page 2: The pile of garbage weighs 28 tons.

Page 3: 30 bags of garbage were collected in all.
Want to try another one? Cecil earned 20 dollars.

Equations

Page 4: The skid loader moved 8 crates of watermelons.

Page 5: The pallet lifter moved 24 boxes of cabinets.
Want to try another one? 40 stones were lifted onto the truck.

Is This Multiplication?

Page 6: There are 10 lug nuts on the two tires.

Page 7: 12 tires were changed.
Want to try another one? 18 cases of water were used.

Is This Subtraction?

Page 8: On average, the excavator dug 4 cubic yards of coal in an hour.

Page 9: On average, the bulldozer moved 8 tons of dirt per hour.
Want to try another one? Each backhoe operator filled 5 trucks.

Inverse Operations

Page 10: There were 9 stacks of trees.

Page 11: Each cut 6 trees.
Want to try another one? The skidder makes 7 trips.

Draw a Picture

Page 12: It would take 28 minutes to clear 7 miles of road.

Page 13: Tyra's dad cleared 16 driveways.

Want to try another one? It would take 80 minutes.

Make a Model

Page 14: There were 9 games that season.

Page 15: It takes 7 games.

Want to try another one? It would take about 5 hours.

Ones

Page 16: It cleans 35 streets.

Page 17: It dropped off mulch 8 times.

Want to try another one? The storage bag holds 3 cubic feet of mulch.

Zeros

Page 18: The dump truck carried zero bananas in all.

Page 19: There were zero beach balls on each trip.

Want to try another one? It carried zero shovels in all.

Find The Pattern

Page 20: There would be 36 yards of new road.

Page 21: 12 tons of asphalt would be used.

Want to try another one? He will have worked 40 hours.

Mental Tens

Page 22: It costs \$1,000 per second.

Page 23: 5,000 fans can sit in each section.

Want to try another one? On average, \$3,000 was made each day.

Multiplication Equations

Page 24: The wrecking ball was 90 feet high.

Page 25: 420 windows were demolished.

Want to try another one? It will take 36 hours.

Place Value and Multiplication

Page 26: There are 90 wheels on the bridge.

Page 27: 96 crates are loaded in all.

Want to try another one? There are 76 gallons of fuel in all.

Division Equations

Page 28: It would take 9 hours.

Page 29: There are 2 tracks on each corner.

Want to try another one? Each generator runs 4 motors.

Place Value and Division

Page 30: 13 trips are needed.

Page 31: It will take 22 gallons of diesel fuel.

Want to try another one? There are 14 stacks of televisions.

Remainders

Page 32: It would take 14 CDs to be at least as tall as a monster truck.

Page 33: It will take 10 weeks.

Want to try another one? 4 trucks are needed.

Break It Apart

Page 34: It will take 8 hours.

Page 35: It cut 120 feet of tunnel.

Want to try another one? It will take 3 hours.

Estimation

Page 36: It is about 3 times taller.

Page 37: All of the buckets together can hold about 1,400 cubic feet of dirt.

Want to try another one? It is about 100 times wider.