NO PREP MATH CHALLENGE ACTIVITIES

Printable & Digital

27 math challenges
27 lined pages for writing about mathematical thinking
19 brain teasers
130 total pages
500+ 4 star ratings
2900+ happy teachers

Name _____

Math Challeng
Sum of 150

I'm thinking of 3 consecutive numbers (ex
Their sum is 150. What are the numbers?

Use the box below to show

Write at least 3 sentences explaining how you found your answer. What did you do first, second, last? How did you decide which numbers to try first? What strategies did you use to solve the problem?

Math Challenges & Brainteasers with a variety of high-interest themes

© iwanttobeasuperteacher.com

© iwanttobeasuperteacher.com

Print & Go PDF

re 3 girls in a car
rl has 3 boxes
ch box, there are 3 b
very big cat there a
many legs are there

Us

3 girls x
27 big
81 li

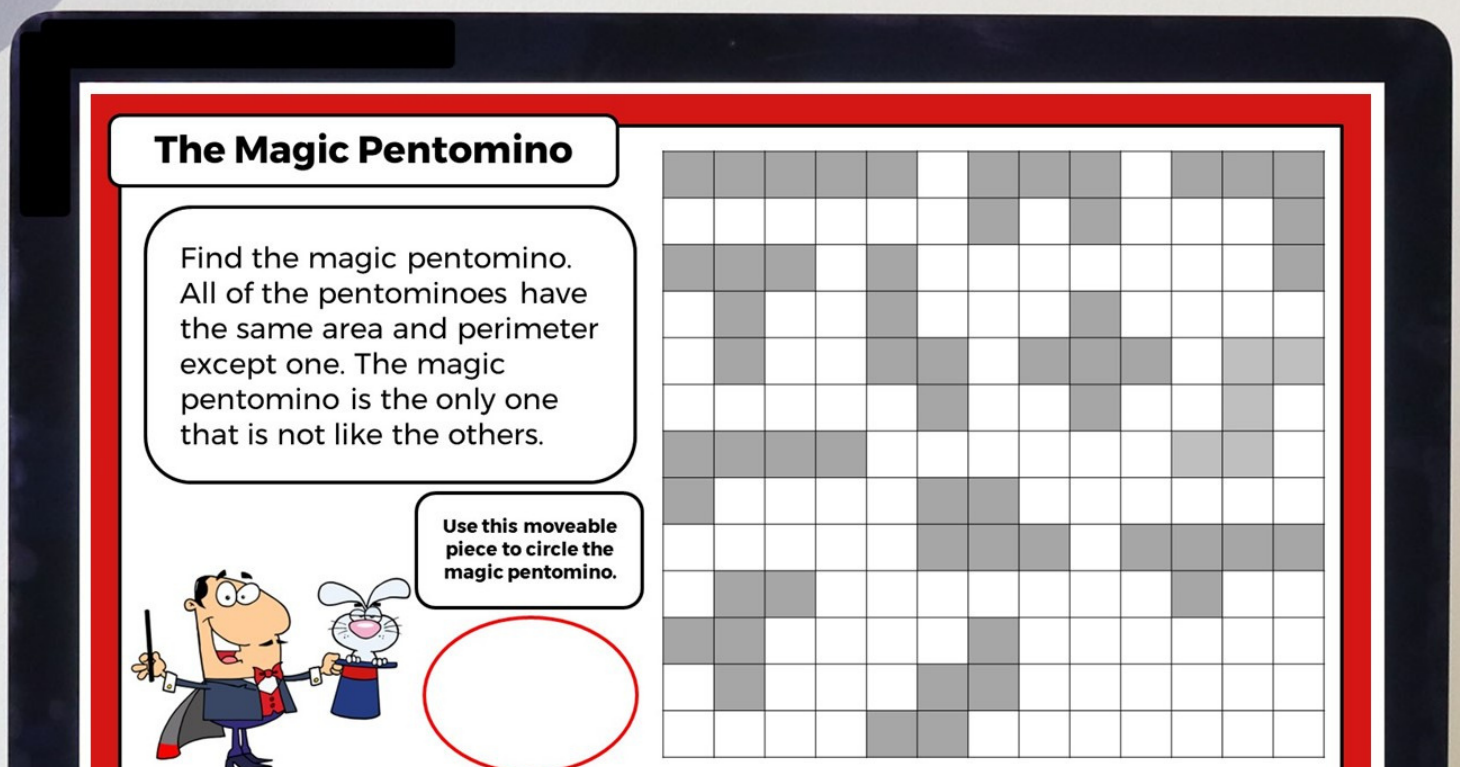
Name _____

Math Challenge
Five Square Challenge

Find all twelve shapes you can make out of 5 squares. Each square must
at least one side of at least one other square. Every shape must be diff
Check for flips and turns of shapes. These do not count as different sha

Use the box below to show your work.

Google Slides versions



Name: _____

Math Challenge
Snail to Old

The garden is 12 feet long. The snail moves 3 feet each day but slides back 2 feet each night. How many days will it take the snail to reach the top of the garden?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Book

Each book has 100 pages. How many pages are there in 5 books?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Candy Jar

There are 50 pieces of candy in a jar. Each piece is either red or blue. If there are 30 red pieces, how many blue pieces are there?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Car Countdown

Start at 100. Count backwards by 7s until you reach 0. How many numbers did you say?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Cookie Plate

There are 12 cookies on a plate. If you eat 3 cookies, how many cookies are left on the plate?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Dinosaur Bones

Each dinosaur has 206 bones. If there are 3 dinosaurs, how many bones are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Dog Collar

Each dog collar has 4 holes. If there are 5 dogs, how many holes are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Dollar Store

You have $10. You buy 3 items that cost $2 each. How much money do you have left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Dragon Eggs

A dragon lays 3 eggs every day. How many eggs will it have laid after 7 days?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Dragon Treasure

A dragon has 100 gold coins. It gives away 37 coins. How many coins does it have left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Egg Carton

An egg carton holds 12 eggs. If you have 3 cartons, how many eggs do you have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Elephant Weight

An elephant weighs 5,000 kg. A baby elephant weighs 120 kg. How much heavier is the elephant than the baby?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Elves and Shoes

There are 6 elves. Each elf has 2 shoes. How many shoes do the elves have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Fairy Dust

A fairy has 50 grains of fairy dust. She uses 8 grains to make a potion. How many grains does she have left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Fish Tank

A fish tank has 4 sides. Each side has 3 windows. How many windows are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Flower Garden

A garden has 8 rows of flowers. Each row has 5 flowers. How many flowers are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Fruit Salad

There are 24 pieces of fruit in a bowl. If 9 pieces are apples and the rest are oranges, how many oranges are there?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Gem Collection

Gem	Number	Value
Ruby	4	$12
Sapphire	3	$15
Emerald	2	$20
Diamond	1	$50

What is the total value of all the gems?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Ghost Count

There are 15 ghosts in a haunted house. 6 ghosts leave. How many ghosts are left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Gift Wrap Patterns

Each present needs 2 sheets of wrapping paper. How many sheets are needed for 6 presents?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Gnome Village

There are 12 houses in a row. Every 3rd house has a gnome. How many houses have gnomes?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Grandma's Dinner Table

There are 8 people at dinner. Each person has 3 pieces of cutlery. How many pieces of cutlery are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Grandpa's Garden

Grandpa has a garden with 4 rows of vegetables. Each row has 6 plants. How many plants are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Halloween Candy

Candy	Number
Chocolate bars	12
Lollipops	8
Gummy bears	15
Candy corn	20

How many pieces of candy are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Haunted Mansion Ghosts

The ghosts in the haunted mansion like to play hide and seek. There are 6 ghosts hiding in the mansion. 2 ghosts are found in the attic, 3 ghosts are found in the basement, and 1 ghost is found in the kitchen. How many ghosts are still hiding?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Hidden Treasure

Start at the top left corner of the grid. Move 3 squares to the right, then 2 squares down. How many squares have you moved in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Hopping Frogs

There are 5 lily pads in a pond. Each lily pad has 2 frogs on it. How many frogs are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Horse Stable

There are 4 horses in a stable. Each horse eats 3 buckets of hay per day. How many buckets of hay are eaten in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Ice Cream Cones

There are 3 flavors of ice cream: vanilla, chocolate, and strawberry. How many different cones can be made with 1 flavor?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Jack-o'-Lantern Jars

Each jar can hold 8 pumpkins. If there are 24 pumpkins, how many jars are needed?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Jellybean Jar

There are 100 jellybeans in a jar. If you eat 10 jellybeans each day, how many days will it take to finish the jar?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Jewelry Box

Item	Number
Rings	6
Necklaces	4
Bracelets	5
Earrings	8

How many pieces of jewelry are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Kite Flying

Each kite has a tail with 5 sections. If you have 3 kites, how many sections are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Knight and Dragon

A knight has 10 hearts. A dragon has 15 hearts. Each time the knight attacks, the dragon loses 3 hearts. How many attacks will it take for the knight to defeat the dragon?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Ladybug Spots

Each ladybug has 6 spots. How many spots do 4 ladybugs have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Lemonade Stand

Each cup of lemonade costs $2. How much money will you make if you sell 10 cups?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Lily Pad Jump

A frog starts on lily pad 1 and jumps to lily pad 5. How many jumps did it make?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Long Train Journey

There are 5 cars on a train. Each car has 4 windows. How many windows are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Lost Puppies

There are 8 puppies. How many puppies are found if 3 are lost?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Magic Beanstalk

Jack climbs the beanstalk. Each day he climbs 3 steps up and slides back 1 step down. How many days will it take Jack to reach the top of the beanstalk if it has 10 steps?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Magic Carpet

A magic carpet can hold 4 people. If there are 12 people who want to ride the carpet, how many trips will it take?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Magic Potion

A wizard has 3 bottles of potion. Each bottle has 5 ounces of potion. How many ounces of potion does the wizard have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Mermaid Necklaces

Each mermaid has 3 necklaces. Each necklace has 4 pearls. How many pearls are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Monster Mansion

There are 3 floors in the monster mansion. Each floor has 4 rooms. How many rooms are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Mouse Maze

Start at the top left corner of the maze. Move 2 squares down and 3 squares to the right. How many squares have you moved in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Mystery Number

I am thinking of a number. If you add 5 to my number, you get 12. What is my number?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Ocean Animals

There are 4 whales, 3 dolphins, and 5 fish. How many animals are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Old Town Clock

The clock tower chimes every hour. How many times will it chime from 1 o'clock to 6 o'clock?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Pancake Party

Each pancake has 2 sides. If you have 6 pancakes, how many sides are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Pizza Party

There are 12 slices of pizza. If you eat 4 slices, how many slices are left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Pond Animals

There are 3 ducks, 2 frogs, and 4 fish in the pond. How many animals are in the pond in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Pumpkin Patch

There are 15 pumpkins in a row. Every 5th pumpkin is orange. How many pumpkins are orange?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Rainbow Colors

There are 7 colors in a rainbow. If you have 3 crayons of each color, how many crayons do you have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Rainbow Fish

There are 10 fish in a tank. 4 fish are rainbow fish. How many fish are not rainbow fish?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Reading Time

You read 2 books each day. How many books will you read in 7 days?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Rocket Ship

A rocket ship has 3 stages. Each stage has 2 boosters. How many boosters are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Sandcastle Towers

Each sandcastle has 4 towers. If you build 3 sandcastles, how many towers will you have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Scarecrow Stuffing

A scarecrow needs 5 pounds of straw to be stuffed. If you have 20 pounds of straw, how many scarecrows can you stuff?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Seashell Collection

Shell	Number
Conch	10
Scallop	8
Starfish	5
Sand Dollar	6
Clam	9
Total	?

How many seashells were collected in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Shadow Puppets

Each puppet has 2 arms and 2 legs. How many limbs do 5 puppets have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Shape Pattern

Draw the next shape in the pattern: circle, square, triangle, circle, square, ____

Use the box below to work. You may draw.

Name: _____

Math Challenge
Shell Necklaces

Each necklace has 12 shells. If you have 3 necklaces, how many shells do you have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Skeleton Bones

A skeleton has 206 bones. If 6 bones are broken, how many bones are not broken?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Snowball Fight

Each snowball can knock down 2 pins. If you have 10 snowballs, how many pins can you knock down?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Spider Web

Each spider has 8 legs. How many legs do 3 spiders have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Spooky Sounds

Each ghost says "Boo!" 3 times. How many times do 4 ghosts say "Boo!"?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Spooky Symmetry

Draw the other half of the spooky face to make it symmetrical.

Use the box below to work. You may draw.

Name: _____

Math Challenge
Star Jar

There are 50 stars in a jar. If you take out 10 stars, how many stars are left in the jar?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Stone Wall

A stone wall is 10 feet long. Each stone is 1 foot long. How many stones are in the wall?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Sunflower Seeds

Each sunflower has 1,000 seeds. If you have 3 sunflowers, how many seeds do you have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Sweet Shop

Item	Number	Price
Lollipops	12	$1
Chocolate bars	8	$2
Gummy bears	15	$1
Candy canes	10	$1

How much money would you make if you sold all the items?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Sweet Shop

Each sweet costs 5p. How much do 4 sweets cost?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Tadpole Pond

There are 10 tadpoles in a pond. 3 tadpoles grow legs and leave the pond. How many tadpoles are still in the pond?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Tea Party Plates

Each guest at the tea party has 3 plates. If there are 5 guests, how many plates are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Tea Party Time

Each guest at the tea party drinks 2 cups of tea. If there are 6 guests, how many cups of tea are needed?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Teamwork Problem

It takes 1 person 4 hours to paint a fence. How many hours will it take 4 people to paint the same fence if they work together?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Treasure Chest

There are 100 gold coins in a treasure chest. If you take away 25 coins, how many coins are left?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Triangle Tent

Each tent has 3 triangles. How many triangles are there in 4 tents?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Unicorn Horns

Each unicorn has 1 horn. How many horns do 6 unicorns have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Vampire Fangs

Each vampire has 4 fangs. How many fangs do 3 vampires have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Vase of Flowers

There are 12 flowers in a vase. If you add 3 more flowers, how many flowers are in the vase?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Vegetable Garden

Each row has 5 vegetables. If there are 4 rows, how many vegetables are there in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Vet Visits

Each dog has 4 legs. How many legs do 3 dogs have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Wand Collection

Wand	Price
Oak	$10
Willow	$12
Holly	$15
Phoenix Feather	$20

How much money would you make if you sold all the wands?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Wizard Hats

Each wizard has 1 hat. How many hats do 5 wizards have in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Wizard Training

Each wizard has 3 spells to learn. How many spells do 4 wizards have to learn in total?

Use the box below to work. You may draw.

Name: _____

Math Challenge
Word Problem

Write your own word problem for a friend to solve.

Use the box below to work. You may draw.

Name: _____

Math Challenge
Zombie Brains

Each zombie has 1 brain. How many brains do 6 zombies have in total?

Use the box below to work. You may draw.

27 Math Challenges

Name _____

Math Challeng
Book

Miss Clarry bought 45 books from the b k o
at the bookstore. She gave aw y 14 book to her
23 more online. How many b

Use th

© iwanttobeasuperteacher.com

Write at least 3 sentences explaining how you found your answer. What did you do first, second, last? How did you know you should add, subtract, multiply or divide? What strategies did you use to solve the problem?

© iwanttobeasuperteacher.com

All math challenges come with a page for students to explain their mathematical thinking

19 Brainteasers

Name_____

Who am I? Brainteaser

I am the sum of all five mystery numbers below.

Who am I? _____

Mystery Number •1
I am a 2-digit number less than 84. The sum of my digits is 9. The ones digit is twice the tens digit.

Mystery Number •2
I am 10 less than the number of minutes in one hour.

Mystery Number •3
I am one dozen more than the number

Name_____

Trick or Treat Brainteaser

Emma, Trey, Kyle, and Jennifer went trick or treating together. They each wore a different costume (a caterpillar, a flamingo, a shark and a giraffe). At the end of the night, they all counted the number of pieces of candy they collected. They each collected a different amount of candy (50, 55, 75, and 99).

Use the clues below to find the costume worn by each person and the amount of candy each person collected.

1. Emma and Jennifer collected a total of 125 pieces of candy.
2. The caterpillar collected 50 pieces of candy.
3. The girls' (Emma and Jennifer) costumes included a flamingo and a caterpillar.
4. Emma was not the flamingo.
5. The shark collected the most pieces of candy.
6. Kyle was not the giraffe.

Show your work and your answer here:

Name_____

Thanksgiving Dinner Restaurant Style

You are the owner of a five-star restaurant serving a Thanksgiving dinner. You must plan the options for a three-course meal that includes an appetizer, an entrée, and dessert. Then use the prices given to find the total cost of the meal for 2, 4, and 8 people. As an extra challenge, try to complete the final question.

Thanksgiving Dinner Menu

Appetizers $8.00

_____

_____

_____

Entrees $10.00

Name_____

Thanksgiving Dinner Brainteaser •1

There are 4 places set at each table for Thanksgiving dinner. All the tables and chairs have 4 legs each, and altogether the tables and chairs have a total of 100 legs.

If there is one place set for each person who will attend, how many people are expected to come to Thanksgiving dinner?

Please show your work in the space below.

My answer is: _____ people.

© auntielizaexperteacher.com

Name_____

Thanksgiving Dinner Brainteaser •2

There are 5 places set at each table for Thanksgiving dinner. All the tables and chairs have 4 legs each, and altogether the tables and chairs have a total of 240 legs.

If there is one place set for each person who will attend, how many people are expected to come to Thanksgiving dinner?

Please show your work in the space below.

Name_____

Equal Equations •1

Balance each set of equations by determining the hidden number in each set of number sentences.

1. $6 + 4 = 1 + \square$	2. $3 + 3 = \square + 3$	3. $9 - 4 = 4 + \square$
4. $2 + \square = 7 + 3$	5. $2 + \square = 4 + 4$	6. $7 - \square = 6 - 2$

Name_____

Equal Equations •2

Balance each set of equations by determining the hidden number in each set of number sentences.

1. $16 + 5 = 1 + \square$	2. $3 + 18 = \square + 4$	3. $19 - 4 = 4 + \square$
4. $12 + \square = 7 + 23$	5. $22 + \square = 14 + 14$	6. $70 - \square = 26 - 2$

Name_____

Mystery Numbers Brainteasers

1. I'm thinking of a number. Add 8 to the number, then add 11 more. The answer is 39. What is the number?

2. I'm thinking of a number. Subtract 5 from the number, then add 18. The answer is 22. What is the number?

Name_____

A Brainteaser with 22 Legs

I counted 22 legs in my house. All the legs were on dogs, people, and spiders. How many of each creature - dogs, people, and spiders - might be in the house? (Remember, spiders have 8 legs.)

Find all the possible answers to this problem. Use the table to help you organize your work. When the table is full, you will have found all the possible answers.

Spiders	Dogs	People

Name_____

Football Math •1

Fill in the final scores in the table below. Here is some information you will need.
One touchdown is worth 6 points.
One field goal is worth 3 points.
One two-point conversion is worth 2 points.
One extra point kick is worth 1 point.

Team Name	Total Touchdowns	Total Field Goals	Total Two Point Conversions	Total Extra Point Kicks	Final Score
Denver Broncos	1	1	0	0	
Chicago Bears	1	2	0	0	

Name_____

Football Math •2

Fill in the final scores in the table below. Here is some information you will need.
One touchdown is worth 6 points.
One field goal is worth 3 points.
One two-point conversion is worth 2 points.
One extra point kick is worth 1 point.

Team Name	Total Touchdowns	Total Field Goals	Total Two Point Conversions	Total Extra Point Kicks	Final Score
Miami Dolphins	5	2	0	5	
Los Angeles Chargers	2	3	1	2	

Name_____

Valentine Mail Brainteaser

There are 5 homes with mailboxes.

Put the mailboxes in the correct order using the following clues.

1. Lauren lives next to Stacie.
2. Amy lives next to Stacie.
3. There is one house between Stacie and Calvin.
4. Jae's mailbox is to the left of Calvin's.
5. Calvin lives between Jae and Lauren.

You may cut out the cards at the bottom of the page to help you solve the problem if you would like. Then write your answer in the boxes below.

Name_____

Olympic Athletes Brainteaser

Kellie, Danny, Eddie, and Gabby are Olympic athletes. They each competed in a different Winter Olympic event (snowboarding, ice skating, curling and a ski jumping). They each earned at least one Olympic medal (1 gold, 1 silver, 1 bronze, 2 golds).

Use the clues below to find the event competed in by each person and the number and type(s) of Olympic medals they received.

1. Eddie was not the ski jumper.
2. The snowboarder earned a silver medal.
3. The girls (Kellie and Gabby) competed in ice skating and curling.
4. Kellie was not the ice skater.
5. The curler earned more than one Olympic medal.
6. Danny earned a gold medal.

Name_____

Numbers in Hiding Brainteaser •1

Use the numbers in the box below to answer the questions. Numbers may be used more than once.

2	5	10	9	11	12	4	8

1. The sum of which two numbers is 15? _____
2. The sum of which two numbers is 20? _____
3. The difference between which two numbers is 4? _____
4. The difference between which two numbers is 3? _____
5. Which number can be doubled to make 20? _____
6. The difference between which two numbers is 6? _____
7. The difference between which two numbers is 10? _____
8. The sum of which two numbers is 10? _____
9. The difference between which two numbers is 5? _____
10. Which number can be tripled to make 12? _____

Name_____

Numbers in Hiding Brainteaser •2

Use the numbers in the box below to answer the questions. Numbers may be used more than once.

110	117	11	23	39	15	68	132

1. The sum of which two numbers is 140? _____
2. The product of which two numbers is 165? _____

Name_____

Bunny Brainteaser

Barry, Betty, Buster, and Barbara are bunnies. They each have different colored fur (blue, pink, orange, and purple) and collected a different number of eggs (52, 29, 143, and 97).

Use the clues below to determine each bunny's color of fur and the number of eggs each bunny collected.

1. The bunny who collected the fewest eggs has pink fur.
2. Barry does not have orange fur.
3. The girls (Betty and Barbara) collected over 200 eggs altogether.
4. Barbara collected fewer than 100 eggs.
5. Buster has pink fur.
6. The bunny who collected the most eggs has blue fur.

Show your work and your answer here:

Name_____

TOTAL VALUE •1

What is the total value of each combination of dollars and coins given? The first problem has been done for you.

Penny	Nickel	Dime	Quarter	Dollar	Total
3	2				$0.13
2			1		
5	1	1			
1	1	3			

Name_____

TOTAL VALUE •2

What is the total value of each combination of dollars and coins given? The first problem has been done for you.

Penny	Nickel	Dime	Quarter	Dollar	Total
3	2				$0.13
5	4	2	1		
9	3	1		1	
4	1	2			

Name_____

Road Trippin' Brainteaser

Roger, Olivia, Allie, and Danny are all going on road trips this summer. They are each traveling to a different destination (California, Texas, New York, and Illinois) and will drive a different number of miles (2,268; 1,197; 274; and 706).

Use the clues below to determine each person's destination and the total number of miles they will drive.

1. Roger is driving the fewest number of miles.
2. The person driving to California is driving the most miles.
3. A girl is going to Texas.
4. Allie is going to the state farthest east.
5. Olivia is driving farther than Allie
6. Danny will be driving to the state farthest west.

Show your work and your answer here:

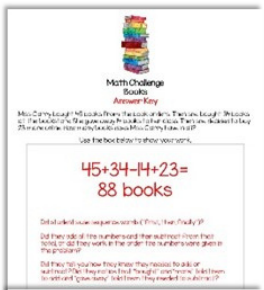
Roger is traveling to _____ and will drive _____ miles.

Olivia is traveling to _____ and will drive _____ miles.

Allie is traveling to _____ and will drive _____ miles.

Danny is traveling to _____ and will drive _____ miles.

Answer Keys


Math Challenge
Books
Answer Key
45+34-14+23=
88 books

Math Challenge
Fingers & Toes
Answer Key
17x20=340
17 added 20 times
=340

Math Challenge
Sum of 150
Answer Key
49, 50, 51

Math Challenge
Haunted Mansion Hang-Up
Answer Key

Math Challenge
Haunted Hotel Number Hang-Up
Answer Key

Math Challenge
Candy Kids
Answer Key

Math Challenge
Electoral Votes
Answer Key

Math Challenge
Coin Combination
Answer Key
4 dimes
11 quarters

Math Challenge
Library Fines
Answer Key

Math Challenge
The Penny Problem
Answer Key

Math Challenge
Donors Donations
Answer Key

Math Challenge
Holiday Gifts
Answer Key

Math Challenge
Road Trip
Answer Key

Math Challenge
Cookie Plates
Answer Key
20+10+12+5+14=51 cookies on every plate
51 cookies x 15 plates = 765 total cookies

Math Challenge
Days In Office
Answer Key
3116+365+365+366+20= 1462 days

Math Challenge
Quarters, Dimes, and Nickels
Answer Key
The answer is
11 quarters
11 dimes
6 nickels

Math Challenge
Pizza Party
Answer Key
The answer is:
11 total pizzas

Math Challenge
2006 Medal Count
Answer Key
The answer is:
8 octopuses
16 sharks

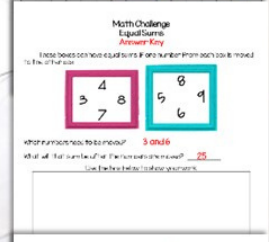
Math Challenge
Four Leaf Clovers
Answer Key
The answer is: 168 clover leaves

Math Challenge
How Many Legs?
Answer Key
The answer is: 438 legs

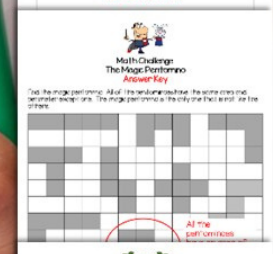
Math Challenge
Five Square Challenge
Answer Key

Math Challenge
Marathon Runners
Answer Key
The answer is 480,480 Feet

Math Challenge
Perimeter Problem
Answer Key


Math Challenge
Equal Sums
Answer Key

Math Challenge
Heads and Tentacles
Answer Key
The answer is:
8 octopuses
16 sharks


Math Challenge
The Magic Performance
Answer Key

Math Challenge
Beach Reading
Answer Key

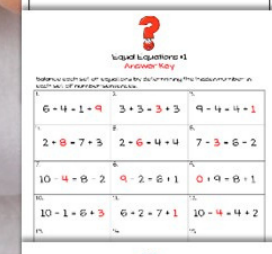
Who am I? Brainteaser
Answer Key
216

Thanksgiving Dinner Restaurant Style
Answer Key
Thanksgiving Dinner Menu

Trick or Treat Brainteaser
Answer Key

Thanksgiving Dinner Brainteaser #1
Answer Key

Thanksgiving Dinner Brainteaser #2
Answer Key
The answer is: 50 people

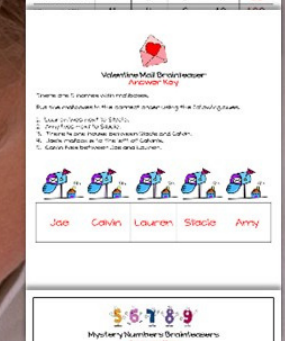

Equal Equations #1
Answer Key

Equal Equations #2
Answer Key

A Brainteaser with 22 Legs
Answer Keys

Football Math #1
Answer Key

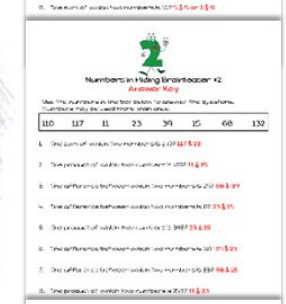
Football Math #2
Answer Key


Valentine Mail Brainteaser
Answer Key
Jae Calvin Lauren Stacie Amy

Mystery Numbers Brainteasers
Answer Key

Olympic Athletics Brainteaser
Answer Key

Numbers in Hiding Brainteaser #1
Answer Key


Numbers in Hiding Brainteaser #2
Answer Key

Bunny Brainteaser
Answer Key

TOTAL VALUE #1
Answer Key

TOTAL VALUE #2
Answer Key

Bruno Triggles' Brainteaser
Answer Key

Links to Google Slides versions, Google FAQ, and Tutorial Videos

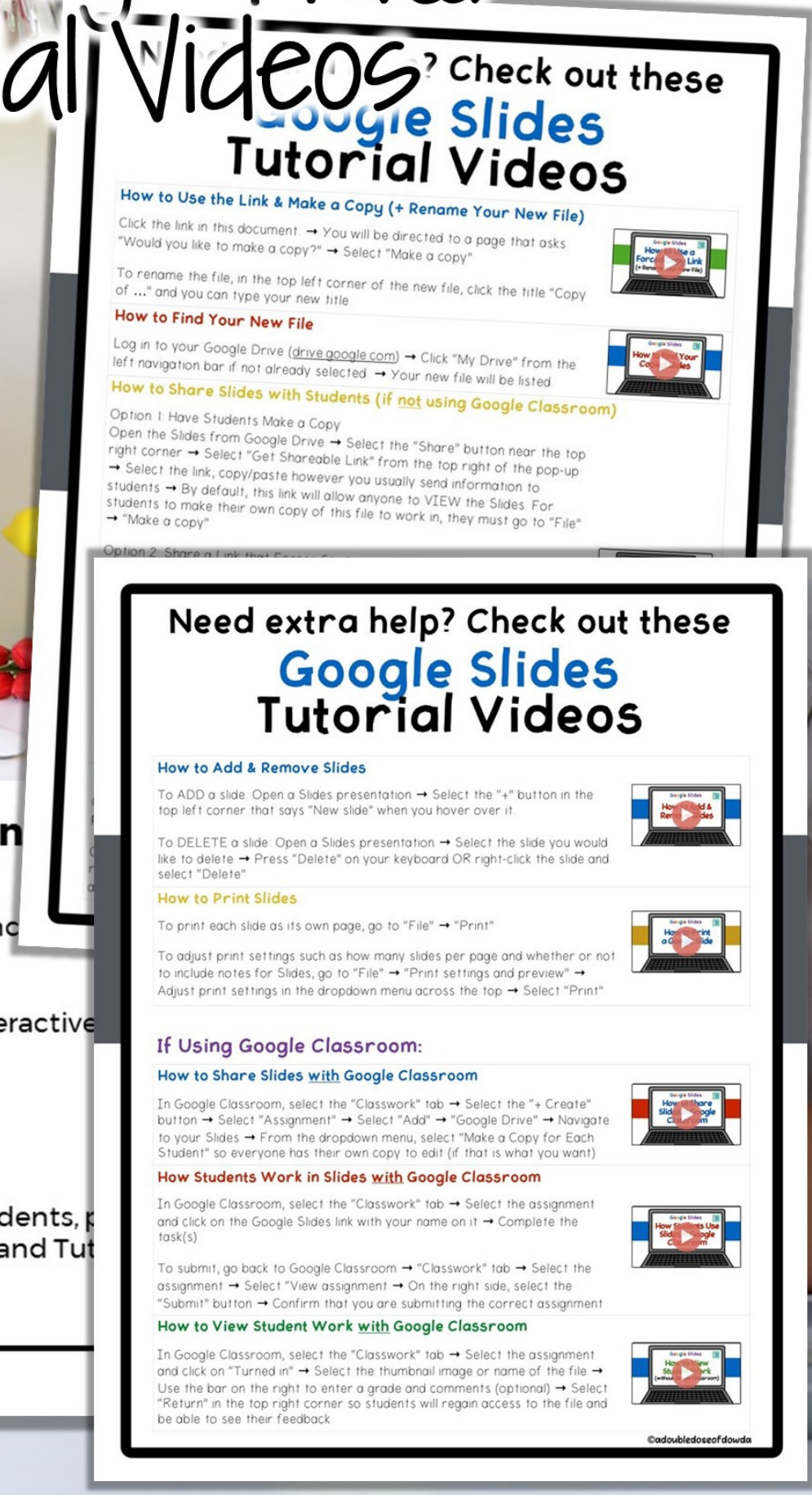
Need a Digital/Interactive Version

An interactive Google Slides ™ version of these activities is inc
your purchase!

Simply click on this link, choose "Make a Copy", and the interactive
slides will be uploaded to your Google Drive ™.

If you have issues with the link, please email me at
iwanttobeasuperteacher@gmail.com.

If you have questions about how to share the slides with students, p
see the next two pages which include Google Slides ™ FAQ and Tut
Videos.



Student Resource to help with conversions and math vocabulary, Notes for teachers, and Clickable Table of Contents

Math Challenge Resource

Conversions & Calendar

1 mile = 5,280 feet
1 yard = 3 feet
1 foot = 12 inches

1 pound (lb.) = 16 ounces (oz.)

1 gallon = 4 quarts
1 quart = 2 pints
1 pint = 2 cups
1 cup = 8 ounces

1 dozen = 12

1 year = 365 days
1 leap year = 366 days
1 week = 7 days

January = 31 days
February = 28 days
(In a leap year = 29 days)
March = 31 days
April = 30 days
May = 31 days
June = 30 days
July = 31 days
August = 31 days
September = 30 days
October = 31 days
November = 30 days
December = 31 days

Definitions

Sum = the answer to an addition problem

Difference = the answer to a subtraction problem

Product = the answer to a multiplication problem

Quotient = the answer to a division problem

Factors = the numbers that divide into another number evenly

Multiple = The product of that number and any other whole number (20 is a multiple of 5 since 5x4=20)

Perimeter = The measurement of the distance around the outside of an object

Area = The measurement of the square units that can cover the inside of a shape

Num

1 one
2 two
3 three
4 four
5 five
6 six
7 seven
8 eight
9 nine
10 ten
11 eleven
12 twelve
13 thirteen
14 fourteen
15 fifteen
16 sixteen
17 seven
18 eighteen
19 nineteen
20
30
40 forty
50 fifty
60 sixty
70 seven
80 eight
90 nine
100 one
1,000 or

How to Use Math Challenges & Brainteasers in Your Classroom: A Few Ideas

- Use these as **extension activities** for **math contracts**. You can read more about this strategy and receive a free editable math contract at the blog HERE.
- Use a challenge or brainteaser as a **homework option** for students who need a challenge or let them **replace a simple homework assignment** with the challenge to **show parents** how well **you're differentiating**.
- Use a [challenge] or brainteaser as a **"number talk"** [to start] your **daily math class**. Work through it as a class or let students work in partners or small groups to talk through it and solve it together.
- Give a challenge or brainteaser to a **small group** of students as [part] of their **independent math work**.

Clickable Table of Contents

Math Challenges

Books (Adding and subtracting two-digit numbers)
Fingers and Toes (Repeated addition, multiplication by tens or twenties)
[illegible]
Electoral Votes (Es[illegible] check) includes El[illegible]
Coin Combination[illegible]
Library Fines (Addi[illegible]
The Penny Probler[illegible]
Darci's Donations [illegible]
Holiday Gifts (Add[illegible]
Road Trip (Additio[illegible]
Cookie Plates (Adc[illegible]
Days in Office (Log[illegible]
Quarters, Dimes, a[illegible]
Pizza Party (Fractic[illegible]
2006 Medal Count[illegible] numbers)
Four Leaf Clovers [illegible] complex problem[illegible]
How Many Legs? [illegible] complex problem[illegible]
Marathon Runners[illegible] ft.)
Five Square Challe[illegible]
Perimeter Problen[illegible]
Equal Sums (Logic[illegible]
Heads and Tentac[illegible]
The Magic Penton[illegible]
Beach Reading (A[illegible]

*All math challeng[illegible] strategies students[illegible]

Clickable Table of Contents Continued

Brainteasers

Who am I? (Logical thinking, guess and check, adding multiple two-digit numbers, money, defining a dozen)
Trick or Treat (Logical thinking, guess and check)
Thanksgiving Dinner Restaurant Style (Adding/multiplying money with decimals)
Thanksgiving Dinner Brainteaser #1 (Logical thinking, multiplication and division, easier)
Thanksgiving Dinner Brainteaser #2 (Logical thinking, multiplication and division, more difficult)
Equal Equations #1 (Equivalent number sentences, easier)
Equal Equations #2 (Equivalent number sentences, more advanced)
Mystery Numbers (Logical thinking, guess and check, addition with 1 and 2-digit numbers)
A Brainteaser with 22 Legs (Guess and check, addition, finding all possible solutions)
Football Math #1 (Addition, multiplication, easier)
Football Math #2 (Addition, multiplication, more advanced)
Valentine Mail (Logical thinking, guess and check)
Olympic Athletes (Logical thinking, guess and check)
Numbers in Hiding #1 (Addition, subtraction, estimation, guess and check)
Numbers in Hiding #2 (Addition, subtraction, multiplication, estimation, guess and check)
Bunny Brainteaser (Logical thinking, guess and check)
Total Value #1 (Adding coins and dollars, easier)
Total Value #2 (Adding coins and dollars, more advanced)
Road Trippin' (Logical thinking, guess and check)

Also includes

Student resource page with common conversions and extra info students might need to help solve these problems. Perfect to use for homework or centers!
Interactive Google Slides version
Google Slides FAQ and Tutorial Videos
Answer keys for every problem

© iwanttobeasuperteacher.com

“I am so pleased with your product that this is the first time I have ever left feedback for anyone on the site. I appreciate that your product does not imply any one system of math instruction, allows for/encourages multiple approaches, is challenging but accessible for second graders, includes some theme/time of year connections, doesn't include any characters nor scenarios from main stream media, includes enough instructions to be self-sufficient and more.”

Sally W.

“Love these challenges. I am always looking for extension materials and these ones are not only fun for the kids but I love that they encourage the kids to think and write about their strategy.”

John S.

“These have been great for my student who needs to be challenged in math! They are fun, engaging, and all very different!”

Amy S.

“Great set of Math Challenges! My students were so engaged and worked collaboratively! The math discourse that takes place is phenomenal. There is a great balance of strands of math like number sense, logical reasoning, geometry, algebraic thinking, measurement and data.”

Ingrid L.

“I used this with my higher students in math as challenges and they constantly begged for more. These were great for building problem solving skills and to front load new 3rd grade skills.”

Miss Wilton

“I was between this product and another and I'm glad I purchased this product. Really makes the students think, and then explain their thinking! Absolutely what I am looking for when it comes to my high flyers. ”

Silly and Smart in Second

“This is such a great resource for students who need a little enrichment in math. My students loved it and it made them think on such a deeper level.”

Meagan B.

“This is an amazing resource for those students who want to be and/or need a little challenge in math. I created math challenge books that they could work on with finished early with their in class work. It is challenging but they loved working together in small groups to try to solve. My students loved it!”

Kristina N.