

Name _____



Math Challenge Into the Woods

Peter is keeping track of his steps with a pedometer on his nature hike. His pedometer reads 4,526. When he returns, his pedometer reads 17,366. If there are 2,140 steps in a mile, how many miles did Peter hike?

Name _____



Outdoor Equations #1

Balance each set of equations by determining the hidden number.

Math Challenges & Brainteasers with camping themes including: tents, summer camp, hiking, barbecues, mosquitoes, hot cocoa, campfires, and s'mores

3.	$6 + 7 = 3 +$
4.	$1 - 3 + 4 = 8 +$ $= 9 +$ $+ 5$
10.	$3 + 4 =$ $- 8$
11.	$1 - 2 = 4$
13.	$18 -$ $= 3 + 6$
14.	$16 - 9 = 13 - 3$
15.	$16 - 8 = 6 +$

Print & Go PDF



CAMP Brainiacs

Write the letters in CAMP in every row, column, and diagonal.

C

A

M

P

Name _____

Four campers determine who will be the camp champion.

1. There is a campfire.
2. Riley is the champion.
3. Shawn is the champion.
4. Riley is the champion.
5. There is a campfire.

Cut out the campers and write your name on the back. Then write your name on the back.



Dylan

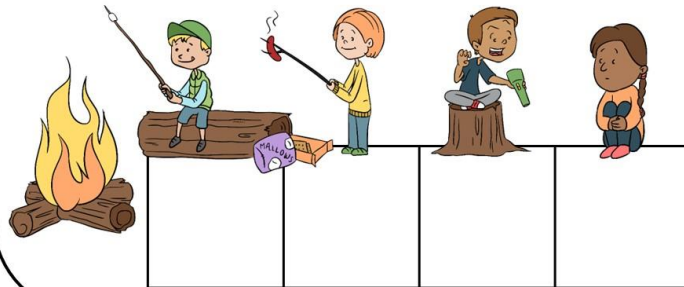
Riley

Google Slides versions

Campfire Clues

Four campers are sitting around the campfire. Use the clues below to determine which camper is which.

- Clue #1: There is one camper between Riley and Adrian.
Clue #2: Riley is closer to the fire than Dylan.
Clue #3: Shawn is closer to the fire than Adrian.
Clue #4: Riley is closer to the fire than Shawn.
Clue #5: There is one camper between Dylan and Shawn.



Use these moveable pieces to show your answer.

Adrian

Riley

Dylan

Shawn

Name _____



Math Challenge Mosquito Bites

Charlie, Jack, Mela, and Natasha ran out of bug spray and now they each have more than one mosquito bite. Altogether the four campers have 30 mosquito bites. Use the clues below to determine how many mosquito bites each camper has.

Clue #1: Jack has one more mosquito bite than Natasha.
Clue #2: The girls (Mela and Natasha) have 16 total mosquito bites.
Clue #3: Charlie has 6 fewer mosquito bites than Jack.

Show your work in the box below.

Name _____



Math Challenge Mouth Full of Marshmallows

Quinn, Kate, Devin, and Maria are roasting marshmallows around the campfire. Altogether the four campers roasted 100 marshmallows. Use the clues below to determine how many marshmallows each camper roasted.

Clue #1: Kate roasted twice the number of marshmallows that Quinn did.
Clue #2: Quinn and Maria roasted half of the marshmallows.
Clue #3: Devin roasted 26 fewer marshmallows than Kate.

Show your work in the box below.

Name _____



Math Challenge Cabin Assignments

Sam and John are looking for their cabin at 100-much-FUN Summer Camp. Use the clues below to determine the number of their cabin.

Clue #1: I am a three-digit number.
Clue #2: The sum of my digits is 14.
Clue #3: The digit in my ones place is twice the digit in my hundreds place.
Clue #4: I am less than 500.

Use the box below to show your work.

Name _____



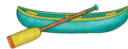
Math Challenge BBQ Planning

The counselors at Camp Sleepaway are buying food for a Parents' Day barbecue. They bought a total of 100 hamburgers, hot dogs, and turkey burgers. Use the clues below to determine how many of each type of food the counselors bought.

Clue #1: There are half the number of hamburgers as hot dogs.
Clue #2: There are 4 more turkey burgers than hamburgers.
Clue #3: They bought 20 more hot dogs than turkey burgers.

Show your work in the box below.

Name _____



Math Challenge Camper Combinations

During choice time, campers at Camp Teton get to choose 3 different activity rotations. They can choose from: arts & crafts, canoeing, survival skills, campfire cooking, and nature hiking. If campers choose 3 different activities during choice time, how many activity combinations can campers choose from?

Find an organized way to show all possible combinations and the answer in the box below.

Name _____



Math Challenge Obstacle Course

At Camp Lakeview, campers start an obstacle course at 9:00 a.m. and finish at 10:00 a.m. The course has 5 stations. If there are 9 obstacles at each station, how many obstacles are there in total?

Show your work in the box below.

Name _____



Math Challenge Camp Garden

The vegetable garden at Camp Plant-a-Seed is 12 feet long and 4 feet wide. If the campers plant 4 vegetable plants in every square foot of the garden, how many vegetable plants will they plant altogether?

Show your work in the box below.

Name _____



Math Challenge Prepping the Popsicles

The Freezers in the mess hall hold packages of popsicles for the annual carnival at Camp Sleephaven. There are 3 Freezers full of popsicles. If every freezer holds 8 boxes of popsicles and every box holds 6 popsicles, how many popsicles are in the Freezers?

Show your work in the box below.

Name _____



Math Challenge Campfire Seating

Every morning at Camp Lakeview, the campers and counselors meet to sing camp songs and discuss the day. The campers sit on logs around the fire. There are 3 logs in the first row, 5 in the second row, and the logs continue to double for every row. If two campers can sit on one log, how many rows of logs are there?

Show your work in the box below.

Name _____



Math Challenge Hot Cocoa Comparison

Susan and Tim both made hot chocolate for a camping trip. Susan made 9 quarts of cocoa. Tim made 4 pints of cocoa. How many more cups of cocoa did Susan make than Tim?

Show your work in the box below.

Name _____



Math Challenge S'more Store

Alan is buying items from the camp store to make s'mores at the campfire. Marshmallows cost \$0.25, graham crackers cost \$0.50, and chocolate bars cost \$0.75. Alan buys half a dozen s'more ingredients and pays with a \$5.00 bill. He receives \$2.75 back in change. If he buys at least one of each ingredient, how many of each type of s'more ingredient did Alan buy?

Show your work in the box below.

Name _____



Math Challenge Into the Woods

Peter is keeping track of his steps with a pedometer. Before he goes on a nature hike, his pedometer reads 4,526. When he returns from his hike, the pedometer reads 17,366. If there are 2,140 steps in one mile, how many miles was Peter's nature hike?

Show your work in the box below.

Name _____



Math Challenge Camp Schedule

The counselors at Camp Lakeview have a number of activities planned for the day. Use the clues below to determine what time the counselors have planned for arts and crafts.

Clue #1: The wake up bell rings at 8:30 a.m.
Clue #2: Campfire singing begins 45 minutes before lake swimming.
Clue #3: Lake swimming begins 1 hour and 15 minutes after the wake up bell.
Clue #4: Arts and crafts begins 3 hours 30 minutes after campfire singing.

Show your work in the box below.

13 Math Challenges

Name _____

Campfire Clues

Four campers are sitting around the campfire. Use the clues below to determine which camper is which.

1. There is one camper between Riley and Adrian.
2. There is one camper between Dylan and Shawn.
3. Shawn is closer to the fire than Adrian.
4. Riley is closer to the fire than Shawn.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers in the boxes below.



Name _____



HIKERS Brainteaser

Arrange the letters in HIKERS so there is one of every letter in the word in every row, column, and 2x3 box.

S					
	E			H	K

Name _____



Dining Hall Design

At Camp Meadowlark there are 15 tables in the dining hall. Every assigned to a numbered cabin 1-15. Complete the map of the dining hall so that every row has the same sum. Some of the tables have been labeled for you.

cabin 10		
		cabin 4
	cabin 1	

Name _____

Tent Tenants

Five families have set up tents for a neighborhood camping trip. Use the clues below to determine which family's tent is which.

1. There are two tents between the Wright and Newton families.
2. The Sayd family is next to the Young family.
3. There are two tents between the Young and Perez families.
4. There is only one tent next to the Newton family.
5. The Perez family is to the left of the Wright family.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers in the boxes below.



Newton Family	Perez Family	Sayd Family	Wright Family	Young Family
---------------	--------------	-------------	---------------	--------------

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Name _____



CAMP Brainteaser

Arrange the letters in CAMP so there is only one of each letter in the word in every row, column, and 2x2 box.

			A
A			P
	M		

Name _____



CampStore #1

Each item from the camp store can be purchased using the money combinations below. Find the total cost of each item by completing the table. The first problem has been done for you.

	Penny	Nickel	Dime	Quarter	Dollar	Total
White Bar			3			
Bag			2			
dog bun			1		1	
Lemonade	4	5	3	6		
Popsicle	10	3	2	3	1	
Ice cream cone	15	1	8	2	1	
Donut	19	12	6	6		
Sunglasses		8	7	9	1	
Bug spray	20	20	20			
Roasting stick		15	5	15		
Hot dog kit	9	9	9	7	1	
Smore Kit	9	11	21	9		

Name _____



Outdoor Equations #1

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

1. + 2 = 7 - 2	2. + 3 = - 3	3. + 7 = 3 +
4. - 12 = 3 + 4	5. + 8 = 9 + 7	6. + 6 = 4 + 5
7. + 9 = 20 - 6	8. = 15 - 2	9. + 8 = 4 - 8
10. + 9 = - 4	11. + 9 = + 15	12. - 10 = 12 - 4
13. + 10 = 4 + 16	14. - 12 = 2 + 3	15. - 8 = + 1
16. - 18 = 3 + 6	17. - 9 = 13 - 3	18. - 16 = 8 - 6 +

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Name _____



CAMPFIRES Brainteaser

Arrange the letters in CAMPFIRES so there is one of every letter in the word in every row, column, and 3x3 box.

	P	A		F		S		E
					E		R	
	M	I				C		P
F			E					
		M	S	A		P		
							A	
			R	P				A
				M	F			C

Name _____



Nature WALK Brainteaser

Arrange the letters in WALK so there is only one of each letter in the word in every row, column, and 2x2 box.

	K		
A			

Name _____



CampStore #2

Each item from the camp store can be purchased using the money combinations below. Find the total cost of each item by completing the table. The first problem has been done for you.

	Penny	Nickel	Dime	Quarter	\$1.00 Bill	Total
Compass	10	3	0	2	3	\$5.75
Horseshoes	5	2	10	6	2	
Jacket	10	10	7	3	6	
Hat	5	8	8	8	2	
Swimsuit	20	9	6	10	5	
Sunscreen	9	3	2	3	3	
Blanket	25	20	10	4	2	
Inner tube	100	10	9	9	5	
Lifejacket	39	9	25	12	1	
Canoe paddle		15	30	3	3	
Fishing rod	15	2	9	15	3	
Bait	34	1	1	2		
Firewood	20	11	20	5		
Sleeping bag	19	10	13	16	4	
Backpack	15	13	14	15	4	

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Name _____



Outdoor Equations #2

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

1. + 20 = 60 - 30	2. + 35 = - 10	3. + 22 = 50 -
4. + 24 = 12 + 36	5. + 18 = 62 - 26	6. + 42 = 80 - 15
7. + 16 = 72 - 24	8. + 27 = 90 - 26	9. + 38 = 19 +
10. + 82 = 12 + 44	11. + 48 = 29 + 64	12. + 65 = 100 - 27
13. - 55 = 9 + 7	14. + 51 = 19 + 73	15. + 13 = 23 - 54
16. + 37 = 26 + 79	17. - 29 = 43 + 20	18. + 62 = 19 = 89 -

Name _____

Sleeping Bag Slumber Party

Five sleeping bags are lined up for the girls at Lone Tree Sleepaway Camp. Use the clues below to determine whose sleeping bag is whose.

1. Elaina sleeps one spot to the left of Rainy.
2. There are 3 sleeping bags between Callie and Elaina.
3. Chloe sleeps between Rainy and Shanna.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers in the boxes below.



Callie	Chloe	Elaina	Rainy	Shanna
--------	-------	--------	-------	--------

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Name _____



CABINS Brainteaser

Arrange the letters in CABINS so there is one of every letter in the word in every row, column, and 2x3 box.

			C		
A				B	N
	S				B
				N	
		N		A	
C				S	

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Name _____

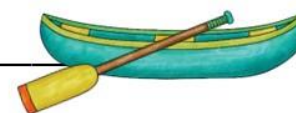


Math Challenge Camper Combination

During choice time, campers at Camp Tetonia rotate through different activity rotations. They can choose from: arts & crafts, campfire cooking, and nature hiking. If campers rotate through all three during choice time, how many activity combinations can they create?

Find an organization that...

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



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



Math Challenge Resource

Conversions & Calendar

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

1 pound = 16 ounces

1 gallon = 128 ounces

1 quart = 32 ounces

1 pint = 2 cups

1 cup = 8 ounces

1 dozen = 12

1 year = 365 days
1 leap year = 366 days
1 week = 7 days
1 hour = 60 minutes

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

Quotient = the answer to a division problem

Factors = the numbers that multiply together to make a number and any other whole number (20 is a multiple of 5 since $5 \times 4 = 20$)

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

Numbers

1 one
2 two
3 three

6 six

7 seven

8 eight

9 nine

10 ten

11 eleven

12 twelve

13 thirteen

14 fourteen

15 fifteen

16 sixteen

17 seventeen

18 eighteen

19 nineteen

20 twenty

30 thirty

40 forty

50 fifty

60 sixty

70 seventy

80 eighty

90 ninety

100 one hundred

1,000 one thousand

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

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 math challenge or brainteaser as a **"number talk"** problem to **start out your daily math class**. Work through it as a class or let students work in partner or small groups to talk through it and solve together.
- Use a challenge or brainteaser as a **small group** of students as one of **shop rotations** or use them with your advanced small math group.
- Use a challenge or brainteaser as a **math practice activity** during a unit and check, work backwards, and check.
- Keep a **challenge problems** in your classroom **fast finisher** for students who want a challenge.

Clickable Table of Contents

Math Challenges

[Mosquito Bites](#) (Adding 1 and 2-digit numbers to 30, guess and check)
[Mouth Full of Marshmallows](#) (Adding 2-digit numbers to 100, guess and check)
[Cabin Assignments](#) (Place value with 5-digits, adding 1-digit numbers within 20, guess and check)
[BBO Planning](#) (Adding 1 and 2-digit numbers to 100, guess and check)
[Camper Combinations](#) (Finding all possible combinations, organizing work)
[Obstacle Course](#) (Addition, multiplication, converting minutes to hours, elapsed time)
[Camp Garden](#) (Area, repeated addition/multiplication with 1 and 2-digit numbers)
[Prepping the Popsicles](#) (Repeated addition/multiplication with 1 and 2-digit numbers)
[Campfire Seating](#) (Doubling numbers, organizing data, adding multiple 2-digit numbers)
[Hot Cocoa Comparison](#) (Capacity conversions with cups, pints, and quarts)
[Smore Store](#) (Adding and subtracting money within \$5.00, guess and check)
[Into the Woods](#) (Subtraction with larger numbers, non-traditional division strategies)
[Camp Schedule](#) (Elapsed time, adding and subtracting minutes and hours)

*All math challenges come with a lined page for written responses focused on strategies students used to solve the problem

Brainteasers

[Campfire Clues](#) (Logical thinking, guess and check)
[Sleeping Bag Slumber Party](#) (Logical thinking, guess and check)
[Tent Tenants](#) (Logical thinking, guess and check)
[Dining Hall Design](#) (Adding 1 and 2-digit numbers, guess and check)
[Camp Store #1](#) (Adding coins and bills to \$5.00, easier)
[Camp Store #2](#) (Adding coins and bills to \$10.00, more difficult)
[Outdoor Equations #1](#) (Addition and subtraction within 20, balancing equations)
[Outdoor Equations #2](#) (Addition and subtraction within 100, balancing equations)
[CAMP Logic Puzzle](#) (Logical thinking, guess and check, easier)
[Nature WALK Logic Puzzle](#) (Logical thinking, guess and check, easier)
[HIKERS Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
[CABINS Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
[CAMPFIRES Logic Puzzle](#) (Logical thinking, guess and check, most difficult)

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



I want to be a **SUPER**Teacher

Helping **straight-talking teachers**, with a **flair for fun**,
engage every learner while **staying sane** in grades 2-3

Questions?

Leave a **Q&A** at the store

or **email** me at

katiesmith@iwanttobeasuperteacher.com

Thank you
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