

Name _____



Math Challenge Culinary Combo

For Thanksgiving Tommy is going to a restaurant. There are two choices for the main course (turkey or green beans, mashed potatoes, stuffing), and two choices for the dessert (pumpkin pie or chocolate pie). If Tommy chooses one main course and one dessert, how many possible combinations are there?

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

Name _____

Fall Leaves

There are five fall trees below. Each tree has a different color of leaves. Use the clues below to determine the color of leaves on each tree.

1. The yellow tree is one spot to the left of the red tree.
2. There are 3 trees between the yellow and orange trees.
3. There is one tree between the red and green trees.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers or draw the colored leaves on the trees in the boxes below.



Math Challenges & Brainteasers with Thanksgiving and fall themes including: apples, leaves, cider, Thanksgiving dinner, turkey, mums, football, daylight saving time, and PIE!

Red

Yellow

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© iwanttobcasuperteacher.com

Print & Go PDF

Arrange the letters in
word in every row, col

S

K

A

Name _____

Fall Leaves

There are five fall trees below. Each tree has a different color of leaves. Use the clues below to determine the color of each tree.

1. The



Name _____

November Number Sentences #1

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

1.



$$+ 6 = 9 - 2$$

2.

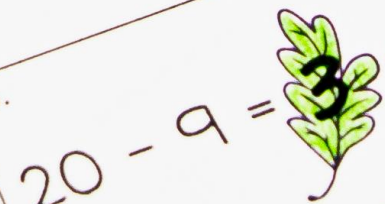


$$4 + 5 = 12 - 3$$

3.

$$8 + 8 = 0$$

5.



$$20 - 9 = 3 + 8$$

6.



9.

4.



$$5 = 13 - 8$$

$$18 - 5$$

Falling Leaves

The leaves are falling off of the tree in Peter's backyard. Peter counts the leaves that have fallen. Use the clues below to determine how many leaves have fallen off the tree.

Clue #1: I am a three-digit number.

Clue #2: The sum of my digits is 20.

Clue #3: The digit in my ones place is two more than the digit in my tens place.

Clue #4: The digit in my hundreds place is three fewer than the digit in my tens place.

Show your answer here.

Type your answers in the boxes or use these moveable pieces to show your work & answer.

1	6	+
2	7	-
3	8	×
4	9	=
5	0	÷
		,

Write at least 3 sentences explaining how you found your answer here.



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+ Google Slides versions

13 Math Challenges



Name _____

Josie, Sophie, Angie, and Elise went apple picking at the Cidermill Orchard. Altogether they picked 50 apples. Use the clues below to determine how many apples each person picked.

- Clue #1: Josie picked twice the number of apples that Angie did.
Clue #2: Elise picked one more apple than Sophie.
Clue #3: Angie and Josie picked 33 apples altogether.

Show your work in the box below.

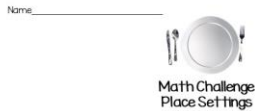


Name _____

The leaves are falling off of the tree in Peter's backyard. Peter counts the leaves that have fallen. Use the clues below to determine how many leaves have fallen off the tree.

- Clue #1: I am a three digit number.
Clue #2: The sum of my digits is 20.
Clue #3: The digit in my ones place is two more than the digit in my tens place.
Clue #4: The digit in my hundreds place is three fewer than the digit in my tens place.

Use the box below to show your work.



Name _____

Kevin is setting the table for his family's Thanksgiving meal. Each place setting has 2 forks, 2 knives, 1 spoon, 1 napkin, 1 glass, and 2 plates. If there are 8 items on the table, and one person will be eating at each place setting, how many people will be eating dinner at Kevin's house on Thanksgiving?

Show your work in the box below.



Name _____

For Thanksgiving Tommy is going to a restaurant with a holiday buffet. There are two choices for the main course (turkey or ham), three choices for sides (green beans, mashed potatoes, stuffing), and two choices for dessert (pumpkin pie or chocolate pie). If Tommy chooses one main course, one side, and one dessert, how many possible combinations of food can he have on his plate?

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



Name _____

The Triumphant Turkeys are facing off against the Stuffed Gizzards in the annual Turkey Bowl Football game. Use the clues below to determine the final score of the game.

- Clue #1: The teams scored 56 points altogether.
Clue #2: The Stuffed Gizzards won by 8 points.

Show your work in the box below.

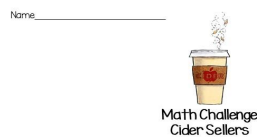


Name _____

The four squirrels in the old oak tree found acorns to store for winter. Altogether Sharon, Steve, Sylvia, and Sammy squirrel found 100 acorns. Use the clues below to determine how many acorns each squirrel found.

- Clue #1: Sylvia and Sammy found 70 acorns altogether.
Clue #2: Steve found 6 more acorns than Sharon.
Clue #3: Sammy found the same number of acorns as Sylvia.

Show your work in the box below.



Name _____

Johnny and Vanessa both made apple cider to sell at the Fall Festival. Johnny made 7 quarts of apple cider. Vanessa made 12 pints of apple cider. How many more cups of cider does Johnny have to sell than Vanessa?

Show your work in the box below.



Name _____

Gordon buys three types of donuts at The Donut Mill for his classroom's Thanksgiving Feast of Traditions. Glazed donuts cost \$0.25, pumpkin donuts cost \$0.50, and apple crumb donuts cost \$0.75. Gordon buys half a dozen donuts and pays with a \$5.00 bill. He receives \$2.50 back in change. How many of each type of donut did Gordon buy?

Show your work in the box below.



Name _____

Sharleen bought 3 colors of mums to decorate her front porch for fall. She bought 5 pots of mums. White mums cost \$1.75 cents per pot, yellow mums cost \$3.50 per pot, and lavender mums cost \$5.25 per pot. Sharleen paid with a \$20.00 bill and received \$4.25 back in change. How many pots of each color of mum did Sharleen buy?

Show your work in the box below.



Name _____

The 5 families in Daniel's neighborhood are planning to play football after Thanksgiving dinner. They will divide evenly into four teams. Use the clues below to determine how many people will be on each team.

- Clue #1: There are 5 people in Daniel's family.
Clue #2: There are 2 fewer people in the Parker family than in Daniel's family.
Clue #3: The Sorenson and Baxter families have the same number of people.
Clue #4: There are 2 more people in the Baxter family than the Stewart family.
Clue #5: The Sorenson family has 3 more people than the Parker family.

Show your work in the box below.



Name _____

Joelle is raking leaves with her 4 siblings. They rake 100 leaves in all. If each person raked the same amount of leaves, how many leaves did each person rake?

Show your work in the box below.



Name _____

Katie drives to Breckenridge, Colorado to see the changing leaves on the aspen trees. In one grove of trees Katie notices only one-third of the aspen trees have changed to yellow leaves. If 60 trees still have green leaves, how many trees are in the aspen grove?

Show your work in the box below.



Name _____

At Zoey's Thanksgiving dinner, pumpkin pies are cut into fourths. Zoey shares the pies with her 4 family members. Use the clues below to determine how many total pies Zoey's family ate.

- Clue #1: Lenny ate half of a pie.
Clue #2: Lisa ate one more piece than Lenny.
Clue #3: Phoebe ate one fourth of a pie.
Clue #4: Marco ate twice the number of pieces that Phoebe did.
Clue #5: Zoey ate one more piece than Lisa.

Show your work in the box below.

13 Brainteasers

Name: _____

Name That Turkey

There are five turkeys warbling in the field. Use the clues below to determine which turkey is which.

- Ted is one spot to the left of Trevor.
- Thomas is between Tad and Ted.
- There are 3 turkeys between Tim and Trevor.

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: _____

Fall Leaves

There are five fall trees below. Each tree has a different color of leaves. Use the clues below to determine the color of leaves on each tree.

- The yellow tree is one spot to the left of the red tree.
- There are 3 trees between the yellow and orange trees.
- There is one tree between the red and green trees.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers or draw the colored leaves on the trees in the boxes below.







Name: _____

Food Platters

Each of these five platters holds a different kind of food for a Thanksgiving feast. Use the clues below to determine which type of food is on each platter.

- There are two platters between the potatoes and the green beans.
- The yams are to the left of the green beans.
- The turkey is between the potatoes and yams.
- There is one platter of food between the stuffing and the turkey.

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: _____

Pie Time

There are five different kinds of pie lined up on the table. Use the clues below to determine which pie is which.

- The chocolate pie is between the pecan and pumpkin pies.
- The cherry pie is one spot to the left of the pecan pie.
- The apple pie is to the right of the pumpkin pie.

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.







Apple
Cherry
Chocolate
Pecan
Pumpkin

Name: _____

Losing Light #1

Cameron lives in Chicago, Illinois. He keeps track of the time the sun rises and sets during the weeks before and after daylight saving time. Complete his chart by determining the amount of daylight on each date using the sunrise and sunset times given. One of the problems has been done for you.

Date	Sunrise Time	Sunset Time	Hours & Minutes of Daylight
November 1	7:23 a.m.	5:44 p.m.	
November 2	7:24 a.m.	5:43 p.m.	
November 3	7:25 a.m.	5:41 p.m.	
November 4	7:26 a.m.	5:40 p.m.	
November 5	6:28 a.m.	4:39 p.m.	
November 6	6:29 a.m.	4:38 p.m.	
November 7	6:30 a.m.	4:37 p.m.	
November 8	6:31 a.m.	4:36 p.m.	10 hours 4 minutes
November 9	6:33 a.m.	4:35 p.m.	
November 10	6:34 a.m.	4:34 p.m.	
November 11	6:35 a.m.	4:33 p.m.	
November 12	6:36 a.m.	4:32 p.m.	

Name: _____

Losing Light #2

Leah lives in Tulsa, Oklahoma. She keeps track of the time the sun rises and sets during the weeks before and after daylight saving time. Complete her chart by filling in the missing information in each row. One of the problems has been completed for you.

Date	Sunrise Time	Sunset Time	Hours & Minutes of Daylight
November 1	7:47 a.m.	6:27 p.m.	
November 2	7:48 a.m.	6:26 p.m.	
November 3		6:25 p.m.	10 hours 36 minutes
November 4	7:50 a.m.		10 hours 34 minutes
November 5	6:51 a.m.	5:23 p.m.	
November 6	6:52 a.m.		10 hours 30 minutes
November 7		5:21 p.m.	10 hours 28 minutes
November 8	6:54 a.m.	5:21 p.m.	10 hours 27 minutes
November 9		5:20 p.m.	10 hours 25 minutes
November 10	6:56 a.m.		10 hours 23 minutes
November 11	6:57 a.m.	5:18 p.m.	
November 12	6:58 a.m.		10 hours 19 minutes

Name: _____

November Number Sentences #1

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

- $9 + 6 = 9 - 2$
- $4 + \text{acorn} = 12 - 3$
- $8 + 8 = 9 + \text{turkey}$
- $10 - 5 = \text{leaf} - 8$
- $20 - 9 = \text{leaf} + 8$
- $\text{pumpkin} + 7 = 6 + 5$
- $7 + 5 = 17 - 7$
- $7 + \text{leaf} = 18 - 5$
- $2 + 4 = \text{acorn} - 9$
- $9 - \text{pumpkin} = 4 + 3$
- $8 + 7 = \text{acorn} + 10$
- $10 - 2 = 4 + \text{turkey}$
- $9 + 9 = 2 + 13$
- $20 - \text{leaf} = 4 + 6$
- $14 - 7 = \text{leaf} + 5$
- $19 - 10 = \text{leaf} + 7$
- $12 - 6 = \text{acorn} - 2$
- $18 - 9 = 5 + \text{pumpkin}$

Name: _____

November Number Sentences #2

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

- $12 + 10 = 50 - 25$
- $12 + \text{acorn} = 100 - 52$
- $20 + 40 = 92 - \text{turkey}$
- $30 + 15 = \text{leaf} - 15$
- $18 + 17 = \text{leaf} - 35$
- $\text{pumpkin} + 16 = 80 - 40$
- $81 = 100 - 10$
- $35 + \text{leaf} = 48 + 12$
- $89 - 19 = \text{acorn} + 51$
- $14 + \text{pumpkin} = 50 - 8$
- $50 + 18 = \text{acorn} + 38$
- $25 + 55 = 95 - \text{turkey}$
- $9 - 9 = 30 + 33$
- $81 + \text{leaf} = 19 + 80$
- $65 + 6 = \text{leaf} - 19$
- $16 - 1 = 1$
- $17 - 1 = 1$
- $18 - 1 = 1$

Name: _____

MEAL Brainteaser

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

	E		
A		L	
	L		
E			

Name: _____

LEAF Brainteaser

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

		E	
E			F
	F		
A			

Name: _____

TURKEY Brainteaser

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

		E			T
		K			
			E	Y	K
			U		R

Name: _____

THANKS Brainteaser

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

S					H
K		N			
A				N	
			S		
				T	

Name: _____

RAKE & JUMP Brainteaser

Arrange the letters and symbol in RAKE&JUMP so there is one of every letter and symbol in the words in every row, column, and 3x3 box.

	A				E	
E	A	J		P		
		U		M		
R	&	P		J	K	
	K		R			
K	E	P			&	
P	J	M	K		U	
			J			

Name _____



Math Challenge Cider Sales

Johnny and Vanessa both made apple cider. To make 7 quarts of apple cider, Vanessa made 12 more cups of cider does Johnny have to make?

Show your work

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? 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 = 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

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

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 exactly into another number

Divisor = a number that divides another number evenly

Dividend = the number being divided

Divisor = the number that divides another number evenly

Dividend = the number being divided

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Divisor = the number that divides another number evenly

Dividend = the number being divided

Numbers

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 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 challenge or brainteaser as a **"number talk"** problem. Work through it as a class or let students work in small groups to talk through it and solve it together.
- Give a challenge or brainteaser as a **small group** of students as one of their **homework rotations** or use them with **math centers**.

Clickable Table of Contents

Math Challenges

- [Two-Digit Numbers](#) (Adding two-digit numbers within 50, guess and check)
- [Three-Digit Numbers](#) (Adding multiple 1-digit numbers to 20, guess and check)
- [One-Digit Numbers](#) (Adding one-digit numbers to 10, guess and check)
- [Culinary Combinations](#) (Finding all possible combinations)
- [Turkey Bowl](#) (Adding two-digit numbers within 100, guess and check)
- [Spin It Away](#) (Adding two-digit numbers within 100, guess and check)
- [Capacity](#) (Capacity conversions with cups, pints, and quarts)
- [Money](#) (Adding and subtracting money within \$5.00, guess and check)
- [Money](#) (Adding and subtracting money within \$20.00, guess and check)
- [Equal Groups](#) (Adding one-digit numbers, dividing into equal groups)
- [Leaf Raking](#) (Mixed operations within 1,000, dividing into equal groups)
- [The Aspen Grove](#) (Determining total from fractional parts of a group)
- [Pie Portions](#) (Fractional parts of a whole, adding fourths)

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

Brainteasers

- [Name That Turkey](#) (Logical thinking, guess and check)
- [Fall Leaves](#) (Logical thinking, guess and check)
- [Food Platters](#) (Logical thinking, guess and check)
- [Pie Time](#) (Logical thinking, guess and check)
- [Losing Light #1](#) (Elapsed time, determining hours of daylight, more difficult)
- [Losing Light #2](#) (Elapsed time, determining sunrise/sunset times, hours of daylight, most difficult)
- [November Number Sentences #1](#) (Addition and subtraction within 20, balancing equations)
- [November Number Sentences #2](#) (Addition and subtraction within 100, balancing equations)
- [MEAL Logic Puzzle](#) (Logical thinking, guess and check, easier)
- [LEAF Logic Puzzle](#) (Logical thinking, guess and check, easier)
- [TURKEY Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
- [THANKS Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
- [RAKE & JUMP 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

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



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To submit, go back to Google Classroom → "Classwork" tab → Select the assignment → Select "View assignment" → On the right side, select the "Submit" button → Confirm that you are submitting the correct assignment

How to View Student Work with Google Classroom

In Google Classroom, select the "Classwork" tab → Select the assignment and click on "Turned in" → Select the thumbnail image or name of the file → Use the bar on the right to enter a grade and comments (optional) → Select "Return" in the top right corner so students will regain access to the file and be able to see their feedback

