

Name _____



Math Challenge Clover Count

Green Clover Field is 8 feet long and 3 feet wide.
clovers in every square foot of the field, how many
found in the field in all?

Show your work in the box

Name _____



Silent Readers

Five students are sitting in their desks silent reading. Use the clues below to determine where each student is sitting.

1. There is one desk between Sally and Simon.
2. Sally does not sit next to Shelby.
3. Simon sits closer to the fish than Shirley.
4. Shirley only sits next to one other student.
5. Shelby sits closer to the fish than Sally.

Use the clues and a number 1-5 to help you if you
want to. Use the boxes below.



Math Challenges &
Brainteasers for March
with St. Patrick's Day,
March Madness, Read
Across America and
Pi Day Themes

Sally	Sammy	Shelby	Shirley	Simon
-------	-------	--------	---------	-------

Print & Go PDF

Pie for Pi Day

Name _____

Use the pie to share. Each student will get a slice (sherry) and

1. The girls (Radda & Do
2. The chocolate pie w
3. Radda's pie was cut
4. The strawberry pie
5. James's pie was a
6. Gilbert did not bring

Show your work and y



Danic
Jame
Radd
Gilbe

Silent Readers



Five students are sitting in their desks silent reading. Use the to determine where each student is sitting.

1. There is one desk between Sally and Simon.
2. Sally does not sit next to Shelby.
3. Simon sits closer to one other student.
4. Shirley only sits next to the fish than Sally.
5. Shelby sits closer to the fish than Sally.

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



+ Google Slides versions



11 Math Challenges

Name _____



Math Challenge Hoards of Horseshoes

Emerald O'Malley is collecting horseshoes to add to his "Shiny Things" stash. Use the place value clues below to determine the number of horseshoes Emerald has collected.

- Clue #1: I am a three digit number.
- Clue #2: The sum of my digits is 10.
- Clue #3: The digit in my tens place is two more than the digit in my ones place.
- Clue #4: The digit in my hundreds place is one less than the digit in my ones place.

Use the box below to show your work.

Name _____



Math Challenge Page Turners

The student in Mr. Thompson's class are reading books for Read Across America Day. They read 100 pages in all. Use the clues below to determine how many pages each student read.

- Clue #1: Sue read half the number of pages that Henry did.
- Clue #2: Alvin and Clarence read 34 pages altogether.
- Clue #3: Sue read 2 more pages than Alvin.

Show your work in the box below.

Name _____



Math Challenge Pie Time

For Pi Day, Mrs. Buttanup's class is baking pies. They start baking the pies at 9:00 am. They only have 5 ovens, but they have 24 pies to bake. If it takes 45 minutes to bake a pie and they can only put one pie in an oven at a time, what time will all of the pies be finished baking?

Show your work in the box below.

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Name _____



Math Challenge Pot-o-Gold

Lester the leprechaun must carry his pot-o-gold past the end of the rainbow to Lucky Leaf Field. The pot weighs 5 pounds. If the pot is filled with 52 gold coins and each coin weighs 2 ounces, how many pounds will Lester need to carry to get the pot and coins to Lucky Leaf Field?

Show your work in the box below.

Name _____



Math Challenge High Score

In 1910 UNLV beat Duke and earned the highest score even in the NCAA Championship game. Use the clues below to determine each team's score.

- Clue #1: Both teams scored an odd number of points.
- Clue #2: UNLV won by more than 26 points.
- Clue #3: Duke scored more than 71 points.
- Clue #4: 176 total points were scored in the game.

Show your work in the box below.

Name _____



Math Challenge NCAA Champs

In 2016 Villanova beat North Carolina to win the NCAA Championship game. Use the clues below to determine each team's score.

- Clue #1: 151 total points were scored in the game.
- Clue #2: Villanova scored 3 points more than North Carolina.

Show your work in the box below.

Name _____



Math Challenge Clover Count

Green Clover Field is 8 feet long and 3 feet wide. If you can find 4 "four-leaf" clovers in every square foot of the field, how many four-leaf clovers can be found in the field in all?

Show your work in the box below.

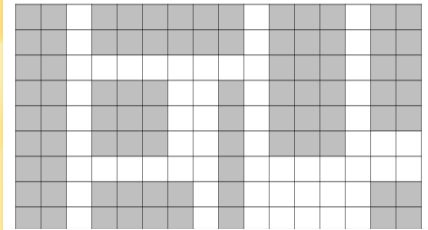
Name _____



Math Challenge Read Around the Room

Mrs. Smith's class brought in blankets to read around the room for a Read Across America read-a-thon. A map of each student's reading space is shown below. Use the clues to determine which student is reading in which space. Then label every space with student name, area and perimeter.

- Clue #1: The area and perimeter of Roald's reading space are the same.
- Clue #2: Louis's reading space has the largest area.
- Clue #3: The perimeter of Mem's reading space is 14 units.
- Clue #4: Katie and Theodore's reading spaces have the same perimeter.
- Clue #5: The perimeter of Roald's reading space is greater than Theodore's.
- Clue #6: Carle's reading space is a square.
- Clue #7: Wilfred's reading space has the smallest area.
- Clue #8: Roald and Maurice's reading spaces have the same perimeter.



Name _____



Math Challenge Eggs & Ham

Mr. Lou is buying eggs and ham to celebrate Read Across America Day with his class. He buys 18 eggs and 5 pounds of ham. If eggs are \$2.99 per dozen and ham is \$3.49 per pound, how much money will Mr. Lou spend on eggs and ham in all?

Show your work in the box below.

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Name _____



Math Challenge Mr. MittenFox

Mr. MittenFox wears a pair of mittens on his front paws every day to keep them warm in the lonesome forest. He wears two different pairs of mittens per week. If he is collecting pairs of mittens to wear for the entire year, how single mittens will he need to collect?

Show your work in the box below.

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Name _____



Math Challenge Leaping Leprechauns

There are seven leprechauns competing in a leaping contest. If the first leprechaun jumps 3 inches high, and each leprechaun after the first jumps twice the height of the previous leprechaun, how many feet will the seventh leprechaun leap?

Show your work in the box below.

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15 Brainteasers

Name _____



March Madness Math #1

Fill in the final scores of each NCAA team in the table below. Here is some information you will need.

One free throw is worth 1 point.
One regular basket is worth 2 points.
One three pointer is worth 3 points.

Team Name	Total Free Throws	Total Regular Baskets	Total Three Pointers	Final Score
Connecticut	6	9	3	
Syracuse	10	7	5	
Cincinnati	8	12	6	
Florida	12	10	12	
Maryland	9	8	9	
Oklahoma State	11	14	4	

Name _____



Rainbow Rules #2

Reach the end of rainbow by following the mathematical rule in the IN/OUT table. If no rule is given, determine the rule from the numbers you are given and then complete the table.

Rule: -10		Rule: x10		Rule: +10		Rule: x5	
IN	OUT	IN	OUT	IN	OUT	IN	OUT
715		20		299		11	
205		12		116		15	
629	619		990		500		65
352			210	909		14	
808		85			306	20	

Name _____



PI Brainteaser

Arrange the first three digits and decimals of PI (3.14) so there is one of each number every row, column, and 2x2 box. Don't forget the decimal!

			I
4			

Name _____



Pie for Pi Day

For Pi Day, students brought in their favorite pie to share. Each student brought a different type of pie (apple, chocolate, pecan, strawberry) and each pie was cut into a different amount of pieces (2, 3, 4 and 8).

Use the clues below to determine the type of pie each student brought to class, and the number and pieces each pie was cut into.

- The girls (Radda & Danica) brought fruit pies.
- The chocolate pie was cut into the smallest sized pieces.
- Radda's pie was cut into smaller pieces than Danica's pie.
- The strawberry pie was cut into larger pieces than the apple pie.
- James's pie was cut into the largest sized pieces.
- Gilbert did not bring the pecan pie.

Show your work and your answer here:

Danica brought a _____ pie cut into _____ pieces.

James brought a _____ pie cut into _____ pieces.

Radda brought a _____ pie cut into _____ pieces.

Gilbert brought a _____ pie cut into _____ pieces.

Name _____



GOLD Brainteaser

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

G			
		G	

Name _____



March Madness Math #2

Fill in the final scores of each NCAA team in the table below. Here is some information you will need.

One free throw is worth 1 point.
One regular basket is worth 2 points.
One three pointer is worth 3 points.

Team Name	Total Free Throws	Total Regular Baskets	Total Three Pointers	Final Score
Duke	15	21	15	
UCLA	12	11	13	
North Carolina	16	10	10	
Kansas	19	20	16	
Michigan State	17	19	20	
Providence	18	16	19	

Name _____



READ Brainteaser

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

			A
R			

Name _____



Rainbow Rules #1

Reach the end of rainbow by following the mathematical rule in the IN/OUT table. If no rule is given, determine the rule from the numbers you are given and then complete the table.

Rule: +10		Rule: -10		Rule: +5		Rule: -5	
IN	OUT	IN	OUT	IN	OUT	IN	OUT
16	26	104		210		15	
95		19		195		110	
	700		912		400		605
405		215	205	115		155	
689		989		85		1,000	

Rule: +100		Rule: -100		Rule: +		Rule: -	
IN	OUT	IN	OUT	IN	OUT	IN	OUT
205		516	416	25	30	550	450
625		110		905		119	
	715		899	115	120		900
199		702		855		925	825
815		1,000			600	165	

Name _____



Silly Things Sentences #2

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

- $\text{Silly} + 68 = 45 + 55$
- $29 - 15 = \text{Silly} - 76$
- $26 + 9 = 15 + \text{Silly}$
- $42 - \text{Silly} = 62 - 33$
- $\text{Silly} + 18 = 100 - 26$
- $49 + 7 = \text{Silly} - 4$
- $89 + 10 = 36 + \text{Silly}$
- $18 + 26 = \text{Silly} - 11$
- $61 - 17 = 17 + \text{Silly}$
- $43 + \text{Silly} = 82 - 23$
- $\text{Silly} - 6 = 19 + 25$
- $68 - 18 = 90 - \text{Silly}$
- $\text{Silly} + 16 = 100 - 7$
- $72 + 8 = \text{Silly} + 32$
- $91 - \text{Silly} = 52 + 26$
- $26 + \text{Silly} = 41 + 41$
- $\text{Silly} - 26 = 38 + 19$
- $91 - 59 = 27 + \text{Silly}$

Name _____



THINGS 1&2 Brainteaser

Arrange the letters and symbol in THINGS 1&2 so there is one of each letter/number/symbol in the word in every row, column, and 3x3 box. Don't forget the &.

		H		S	I			I
	I					T	H	
G					N			
						G	I	N
			T					
						H	2	
H			I					
		N	I	&	2		S	
I	2						N	

Name _____



Silent Readers

Five students are sitting in their desks silent reading. Use the clues below to determine where each student is sitting.

- There is one desk between Sally and Simon.
- Sally does not sit next to Shelby.
- Simon sits closer to the fish than Shirley.
- Shirley only sits next to one other student.
- Shelby sits closer to the fish than Sally.

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.

--	--	--	--	--

Sally	Sammy	Shelby	Shirley	Simon
-------	-------	--------	---------	-------

Name _____



AUTHOR Brainteaser

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

		R	T	H	
A					R
H					

Name _____



CLOVER Brainteaser

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

		V			C
			E		
O			R		

Name _____



SLAMDUNK Brainteaser

Arrange the letters and picture in SLAMDUNK so there is one of each letter/picture in the word in every row, column, and 3x3 box. Don't forget the &.

			D		
				A	
			S		N
			D		U
S			N	L	M

Name _____



Silly Things Sentences #1

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

- $15 - \text{Silly} = 4 + 4$
- $12 + 6 = \text{Silly} - 1$
- $15 + \text{Silly} = 12 + 6$
- $\text{Silly} + 8 = 20 - 4$
- $14 - \text{Silly} = 17 - 10$
- $\text{Silly} + 3 = 7 + 7$
- $5 + 4 = \text{Silly} - 5$
- $12 - 3 = \text{Silly} - 7$
- $2 + 9 = 15 - \text{Silly}$
- $18 - \text{Silly} = 5 + 9$
- $3 + \text{Silly} = 9 - 2$
- $6 + 5 = 16 - \text{Silly}$
- $\text{Silly} + 5 = 20 - 2$
- $12 - 7 = \text{Silly} + 2$
- $18 - 9 = \text{Silly} + 3$
- $16 - 3 = \text{Silly} + 5$
- $19 - \text{Silly} = 8 + 8$
- $\text{Silly} + 2 = 20 - 5$

Name _____



Math Challenge NCAA Champions

In 2016 Villanova beat North Carolina to win the NCAA Championship. Use the clues below to determine each team's score.

Clue #1: 151 total points were scored in the game.

Clue #2: Villanova scored 3 points more than North Carolina.

Show your work in the box below.

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

Answer Keys for every problem

Math Challenge Hoards of Horseshoes Answer Key

Emerald (Malley) is collecting horseshoes to add to the "Shiny Things" stash. Use the piece value clues below to determine the number of horseshoes Emerald has collected.

Clue #1: I am a three digit number.
Clue #2: The sum of my digits is 0.
Clue #3: The digit in my tens place is two more than the digit in my ones place.
Clue #4: The digit in my hundreds place is one less than the digit in my ones place.

Emerald has collected 253 horseshoes.

Math Challenge Pot-o-Gold Answer Key

Lester the leprechaun carry his pot-o-gold past the end of the rainbow to Lucky Leaf Field. The pot weighs 3 pounds. If the pot is filled with 62 gold coins, how many pounds will Lester have to carry to get the pot and coins to Lucky Leaf Field?

Show your work in the box below.

Lucky will need to carry 65 pounds.

Math Challenge NCAA Champs Answer Key

In 2016 Villanova beat North Carolina to win the NCAA Championship game. Use the clues below to determine each team's score.

Clue #1: Villanova scored 3 points more than North Carolina.
Clue #2: Villanova scored 77 points.

Show your work in the box below.

Villanova scored 77 points.
North Carolina scored 74 points.

Math Challenge Read Around The Room Answer Key

Mrs. Smith's class brought in blocks to read around the room for a Read Across America reading-a-ton. A map of each student's reading space is shown below. Use the clues to determine which student's reading space is shown below. Use the clues to determine which student's reading space is shown below. Use the clues to determine which student's reading space is shown below.

Clue #1: The area and perimeter of Kaleb's reading space are the same.
Clue #2: Lyle's reading space has the largest area.
Clue #3: The perimeter of Momma's reading space is 14 units.
Clue #4: Kaleb and Theodore's reading spaces have the same perimeter.
Clue #5: The perimeter of Roddy's reading space is greater than Theodore's.
Clue #6: Carter's reading space is a square.
Clue #7: Mimi's reading space has the smallest area.
Clue #8: Roddy and Maurice's reading spaces have the same perimeter.

Kaleb	Area: 16, Perimeter: 16	Roddy	Area: 16, Perimeter: 16	Mimi	Area: 16, Perimeter: 16
-------	-------------------------	-------	-------------------------	------	-------------------------

Math Challenge Page Turners Answer Key

The students in Mr. Thompson's class are making books for Read Across America Day. They read 100 pages all day. Use the clues below to determine how many pages each student read.

Clue #1: Sue read half the number of pages that Henry did.
Clue #2: Allen and Carlos read 34 pages all together.
Clue #3: Sue read 7 more pages than Allen.

Show your work in the box below.

Sue read 22 pages.
Henry read 44 pages.

Math Challenge High Score Answer Key

In 1990 UNLV beat Duke and scored the highest score ever in the NCAA Championship game. Use the clues below to determine each team's score.

Clue #1: Both teams scored an odd number of points.
Clue #2: UNLV won by more than 26 points.
Clue #3: Duke scored more than 11 points.
Clue #4: UNLV's total points were exactly the same.

Show your work in the box below.

UNLV scored 103 points.
Duke scored 73 points.

Math Challenge Clover Count Answer Key

Green Clover Field is 8 feet long and 3 feet wide. If you can find 4 four-leaf clovers in every square foot of the field, how many four-leaf clovers can be found in the field?

Show your work in the box below.

There are 96 four-leaf clovers in the field in all.

Area of the field = 8x3 = 24 square feet.
24 square feet x 4 four-leaf clovers per foot = 96 total four-leaf clovers.

Math Challenge Eggs & Ham Answer Key

Mr. Louis is buying eggs and ham to celebrate Read Across America Day with his class. He buys 48 eggs and 3 pounds of ham. If eggs are \$2.99 per dozen and ham is \$3.99 per pound, how much money will Mr. Louis spend on eggs and ham in all?

Show your work in the box below.

Mr. Louis will spend \$29.16 on eggs and ham.

48 eggs = 4 dozen.
4 dozen eggs x \$2.99 per dozen = \$11.96.
3 pounds of ham x \$3.99 per pound = \$12.00.
\$11.96 + \$12.00 = \$23.96 total.

Math Challenge Pie Time Answer Key

For Pi Day, Mrs. Burroughs is baking pies. They start baking the pies at 9:00 am. They only have 3 ovens, but they have 24 pies to bake. If it takes 45 minutes to bake a pie and they can only put one pie in an oven at a time, what time will all of the pies be finished baking?

Show your work in the box below.

The pies will be done baking at 3:00 pm.

24 pies x 3 ovens = 8 sessions of pie baking.
8 sessions x 45 minutes = 360 minutes.
360 minutes = 6 hours.
9:00 am + 6 hours of baking = 3:00 pm. Finish time.

Math Challenge Mr. Milkenfox Answer Key

Mr. Milkenfox wears a pair of mill hats on his front paws every day to keep them warm in the breezy forest. He wears two different pairs of mill hats per week. If he is collecting pairs of mill hats to wear for the entire year, how single mill hats will he need to collect?

Show your work in the box below.

Mr. Milkenfox will need to collect 208 single mill hats for the year.

1 year = 52 weeks.
52 weeks x 2 pairs of mill hats a week = 104 total pairs of mill hats.
104 pairs x 2 mill hats in a pair = 208 total mill hats needed for the year.

Math Challenge Leaping Leprechauns Answer Key

There are seven leprechauns competing in a leaping contest. If the first leprechaun jumps 3 inches left on each leprechaun after the first jump, what is the height of the previous leprechaun, how many feet will the seventh leprechaun leap?

Show your work in the box below.

The seventh leprechaun will leap 16 feet.

Leprechaun #	# of inches
1	3
2	6
3	12
4	24
5	48
6	96
7	192 16 feet

March Madness Math #1 Answer Key

Fill in the final scores of each NCAA team in the table below. Here is some information you will need.

One free throw is worth 1 point.
One regular basket is worth 2 points.
One three pointer is worth 3 points.

Team Name	Total Free Throws	Total Regular Baskets	Total Three Pointers	Final Score
Connecticut	6	4	3	33
Syracuse	10	7	5	34
Cincinnati	6	12	6	20
Florida	12	10	12	68
Maryland	4	8	4	24
Oklahoma State	11	14	4	24

March Madness Math #2 Answer Key

Fill in the final scores of each NCAA team in the table below. Here is some information you will need.

One free throw is worth 1 point.
One regular basket is worth 2 points.
One three pointer is worth 3 points.

Team Name	Total Free Throws	Total Regular Baskets	Total Three Pointers	Final Score
Duke	10	21	10	202
UCLA	12	11	13	75
North Carolina	18	10	10	66
Kansas	17	20	18	107
Murray State	17	19	20	105
Providence	18	18	19	107

Silent Readers Answer Key

The students are sitting in their desks for silent reading. Use the clues below to determine where each student is sitting.

- There is one desk between Shirley and Simon.
- Sally does not sit next to Shelby.
- Simon sits closer to the front than Shelby.
- Shirley only sits next to one other student.
- Shelby sits closer to the front than Sally.

Put out the cards at the bottom of the table to help you if you would like. Then write your answer in the boxes below.

Shirley	Sally	Sammy	Simon	Shelby
---------	-------	-------	-------	--------

Pie for Pi Day Answer Key

For Pi Day, students brought in their favorite pie to share. Each student brought a different type of pie (apple, chocolate, peach, strawberry) and each pie was cut into a different amount of pieces (5, 6, 7, 8, 9, 10, 11, 12).

Use the clues below to determine the type of pie each student brought to class, and the number and pieces each pie was cut into.

- The girl (Shelby) brought brought 7 cut pies.
- The chocolate pie was cut into the smallest sized pieces.
- Roddy's pie was cut into smaller pieces than Carter's pie.
- The strawberry pie was cut into larger pieces than the apple pie.
- James's pie was cut into the largest sized pieces.
- Oliver did not bring the peach pie.

Show your work and your answer here.

Rainbow Rules #1 Answer Key

Read the end of rainbow by following the mathematical rule in the (IN/OUT) table. If no rule is given, determine the rule from the numbers you are given and then complete the table.

Rule: -10	Rule: x10	Rule: +10	Rule: x5
IN OUT	IN OUT	IN OUT	IN OUT
715 615	20 200	299 309	11 55
205 195	12 120	116 126	15 75
629 619	99 990	490 500	13 65
352 342	21 210	909 919	14 70
808 798	85 850	296 306	20 100

Rule: +100	Rule: -100	Rule: +5	Rule: -100
IN OUT	IN OUT	IN OUT	IN OUT
205 305	516 416	25 30	550 450
625 725	110 10	405 410	119 114
615 715	999 899	115 120	1,000 900
199 299	702 602	855 900	905 825
815 915	1,000 900	595 600	165 65

Rainbow Rules #2 Answer Key

Read the end of rainbow by following the mathematical rule in the (IN/OUT) table. If no rule is given, determine the rule from the numbers you are given and then complete the table.

Rule: -10	Rule: x10	Rule: +10	Rule: x5
IN OUT	IN OUT	IN OUT	IN OUT
715 615	20 200	299 309	11 55
205 195	12 120	116 126	15 75
629 619	99 990	490 500	13 65
352 342	21 210	909 919	14 70
808 798	85 850	296 306	20 100

Silly Things Sentences #1 Answer Key

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

1. 15 - 7 = 4 + 4	2. 12 + 6 = 19 - 1	3. 15 + 3 = 12 + 6
4. 8 + 8 = 20 - 4	5. 14 - 7 = 17 - 10	6. 11 + 3 = 7 + 7
7. 5 + 4 = 14 - 5	8. 12 - 3 = 16 - 7	9. 2 + 9 = 15 - 4
10. ...	11. ...	12. ...

Silly Things Sentences #2 Answer Key

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

1. 32 + 68 = 45 + 55	2. 29 - 15 = 90 - 76	3. 26 + 9 = 15 + 20
4. 42 - 13 = 62 - 33	5. 56 + 18 = 100 - 26	6. 49 + 7 = 60 - 4
7. 89 + 10 = 36 + 63	8. 18 + 26 = 55 - 11	9. 61 - 17 = 17 + 27
10. ...	11. ...	12. ...

GOLD Brainteaser Answer Key

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

G	O	D	L
L	D	G	O
O	G	L	D
D	L	O	G

READ Brainteaser Answer Key

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

E	D	A	R
R	A	D	E
A	E	R	D
D	R	E	A

PI Brainteaser Answer Key

Arrange the first three digits and decimals of PI (3.14) so there is one of each number every row, column, and 2x2 box. Don't forget the decimal!

.	3	4	I
I	4	3	.
.	I	.	I
I	.	I	.

CLOVER Brainteaser Answer Key

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

R	V	L	E	C	O
C	O	E	L	V	R
O	L	R	V	E	C
E	C	V	O	R	L

AUTHOR Brainteaser Answer Key

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

O	U	R	T	H	A
A	H	T	U	O	R
H	R	U	O	A	T
T	A	O	R	H	U

SLAMDUNK Brainteaser Answer Key

Arrange the letters and picture in SLAMDUNK so there is one of each letter/picture in the word in every row, column, and 2x2 box. Don't forget the S!

A	S	L	D	U	N	K	M
M	D	N	K	A	U	S	L
S	K	U	L	S	M	D	N
K	L	M	A	D	S	U	N
S	A	K	N	U	L	M	D

THINGS I & 2 Brainteaser Answer Key

Arrange the letters and symbol in THINGS I & 2 so there is one of each letter/symbol in the word in every row, column, and 2x2 box. Don't forget the S!

2	&	H	T	S	I	N	G	I
N	I	2	G	&	T	H	S	I
G	T	S	H	I	N	2	&	I
S	H	T	&	2	I	G	I	N
I	N	2	G	T	H	S	I	&
&	I	G	I	N	S	H	2	T
H	S	&	N	I	G	I	T	2
T	G	N	I	&	2	I	S	H
I	2	I	S	H	T	&	N	G



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

Simple = the number of times a number is divided by another number.

Subtraction = the process of taking one number away from another number.

Product = the result of multiplying two or more numbers together.

Quotient = the result of dividing one number by another number.

Factor = a number that divides another number evenly.

Multiple = a number that is the product of a given number and any other whole number.

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

Area = The measurement of the space inside of a shape.

Length = The measurement of the distance from one point to another point.

Width = The measurement of the distance from one side to the other side.

Height = The measurement of the distance from the bottom to the top.

Weight = The measurement of the force of gravity on an object.

Volume = The measurement of the space that an object occupies.

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



- ★ Use a challenge or brainteaser as a "number talk" problem to start out your daily math class. You can use it as a class or let students work on it individually.
- ★ Use a challenge or brainteaser as a "homework" problem for students who are struggling with a concept.
- ★ Use a challenge or brainteaser as a "challenge" problem for students who are advanced.
- ★ Use a challenge or brainteaser as a "problem-solving" problem for students who are struggling with a concept.

Clickable Table of Contents

- [Place value, adding multiple 1-digit numbers to 10, guess and check](#)
- [NCAA Champs](#) (Adding 2-digit numbers, guess and check, logical thinking)
- [Read Around the Room](#) (Perimeter and area, logical thinking)
- [Page Turners](#) (Addition to 100, guess and check, logical thinking)
- [High Score](#) (Adding 2-digit and 3-digit numbers, identifying odd numbers, guess and check)
- [Clover Count](#) (Area, multiplying 2-digit by 1-digit numbers)
- [Eggs & Ham](#) (Adding money within \$20.00, defining a dozen)
- [Pie Time](#) (Converting minutes to hours, elapsed time, simple division)
- [Mr. Mittenfox](#) (Calendar math, multiplying by 2)
- [Leaping Leprechauns](#) (Doubling numbers, converting inches to feet)

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

Brainteasers

- [March Madness Math #1](#) (Addition & Multiplication with multiples of 1, 2, and 3, easier)
- [March Madness Math #2](#) (Addition & Multiplication with multiples of 1, 2, and 3, more difficult)
- [Silent Readers](#) (Logical thinking, guess and check)
- [Pie for Pi Day](#) (Logical thinking, guess and check, comparing simple fractions)
- [Rainbow Rules #1](#) (In/Out Tables, Adding and subtracting 5, 10, and 100 within 1,000)
- [Rainbow Rules #2](#) (In/Out Tables, Adding, subtracting, and multiplying within 1,000)
- [Silly Things Sentences #1](#) (Addition and subtraction to 20, balancing equations)
- [Silly Things Sentences #2](#) (Addition and subtraction to 100, balancing equations)
- [COLD Logic Puzzle](#) (Logical thinking, guess and check, easier)
- [READ Logic Puzzle](#) (Logical thinking, guess and check, easier)
- [PI Logic Puzzle](#) (Logical thinking, guess and check, easier)
- [CLOVER Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
- [AUTHOR Logic Puzzle](#) (Logical thinking, guess and check, more difficult)
- [SLAM DUNK Logic Puzzle](#) (Logical thinking, guess and check, most difficult)
- [THINGS 1 & 2 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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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, please see the next two pages which include Google Slides™ FAQ and Tutorial Videos.

Check out these Google Slides Tutorial Videos

How to Use the Link & Make a Copy (+ Rename Your New File)

Click the link in this document → You will be directed to a page that asks "Would you like to make a copy?" → Select "Make a copy"

To rename the file, in the top left corner of the new file, click the title "Copy of ..." and you can type your new title

How to Find Your New File

Log in to your Google Drive (drive.google.com) → Click "My Drive" from the left navigation bar if not already selected → Your new file will be listed

How to Share Slides with Students (if not using Google Classroom)

Option 1: Have Students Make a Copy

Open the Slides from Google Drive → Select the "Share" button near the top right corner → Select "Get Shareable Link" from the top right of the pop-up → Select the link, copy/paste however you usually send information to students → By default, this link will allow anyone to VIEW the Slides. For students to make their own copy of this file to work in, they must go to "File" → "Make a copy"

Option 2: Share a Link that Gives Full Control

Need extra help? Check out these Google Slides Tutorial Videos

How to Add & Remove Slides

To ADD a slide: Open a Slides presentation → Select the "+" button in the top left corner that says "New slide" when you hover over it.

To DELETE a slide: Open a Slides presentation → Select the slide you would like to delete → Press "Delete" on your keyboard OR right-click the slide and select "Delete"

How to Print Slides

To print each slide as its own page, go to "File" → "Print"

To adjust print settings such as how many slides per page and whether or not to include notes for Slides, go to "File" → "Print settings and preview" → Adjust print settings in the dropdown menu across the top → Select "Print"

If Using Google Classroom:

How to Share Slides with Google Classroom

In Google Classroom, select the "Classwork" tab → Select the "+ Create" button → Select "Assignment" → Select "Add" → "Google Drive" → Navigate to your Slides → From the dropdown menu, select "Make a Copy for Each Student" so everyone has their own copy to edit (if that is what you want)

How Students Work in Slides with Google Classroom

In Google Classroom, select the "Classwork" tab → Select the assignment and click on the Google Slides link with your name on it → Complete the task(s)

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