Name		
NULLIE		



Math Challenge Choco Combos

Zane chose 3 chocolates from the treat table during Day party. There were 6 types of chocolates to choose cream, caramel, double chocolate, peanut butter, nougathe chocolates on his plate are different what are all of chocolates Zane could he

Find an organized to be a possible and the answer in the box selow

Name____



Groundhog Math #1

Use the numbers in the groundhogs below to answer the questions. Numbers may be used more than once. $\begin{tabular}{ll} \end{tabular}$

reasens for the

Groundhog, Winterproperty

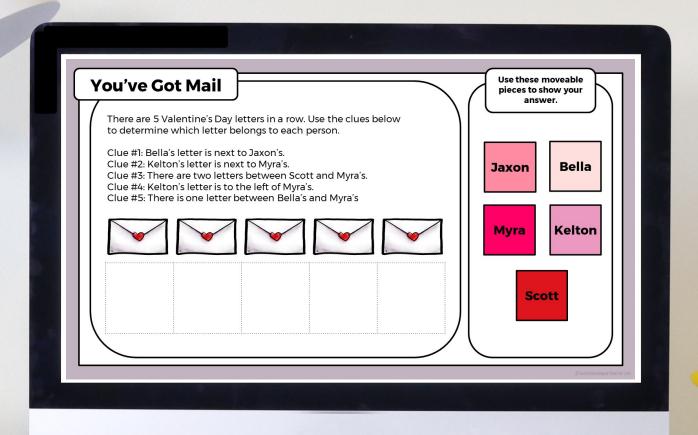
and 0500 Which groundhing can be doubled to make one dozen? ____

- 10. The difference between which two groundhogs is 7?_____
- 11. Which 4 groundhogs are even when tripled?
- 12. What is the sum of all the groundhogs?_____
- 13. Which groundhog when tripled is half of 66?
- 14. Write your own groundhog math question like the ones above on the back of this page. Include the question and all possible answers.

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t Google Glides Versions



13 Math Challenges

2010 Medal Count

In the 2010 Winter Olympics these were the top 10 medal earning countries. Complete the missing numbers in the table using the clues below to help you.

- South Korea won Four more silver than bronze medals.
 The United States won Rive Fewer gold medals than Canada.
 Germany won 30 total medals.
 Norway, Austria, and France wan the same number of bronze medals.
 Sweden, France, and Chria won the same total number of medals.
 China won one less gold medal than South Korea.
 Norway, and The United States wan the same number of gold medals.
 China and Sweden won the same number of gold medals.

Rank	Country	Gold	Silver	Bronze	Total Medals
- 1	United States		15	13	



Math Challenge 2014 Medal Count

In the 2014 Winter Olympics these were the top 10 medal earning countries. Complete the missing numbers in the table using the clues below to help you.

- Canada won the same number of gold and silven medals. The Netherlands earned one more bronze than gold medals. Germany earned four fewer bronze medals than Russia. Russia won one more silver medal than Canada. The Netherlands and Whited States won the same number of silver medals.

- France won the same number of gold and silver medals. Switzerland won 15 fewer total medals than Norway. The Netherlands and Russia won the same number of bronze medals

	Rank	Country	Gold	Silver	Bronze	Total Medals
Į	-1-	Russia	13			33

Math Challenge

Emily brought Pixie Stix, gum drops, candy hearts, gummy bears, and Fun Dp to hand out to her classmates for Valentine's Day. If she gives each classmate 2 different types of candy, how many different candy combinations can she make:



Math Challenge Choco Combos

Zane chose 3 chocolates from the freat table during his class Valentines Day party. There were 6 types of chocolates to choose from raspberry cream, caramel double chocolate, peant butther, nougal, andmint. If all of the chocolates on his plate are different, what are all of the combinations of chocolates are outlinked?

Find an organized way to show all possible combinations



Every year on February 2¹⁸, the groundrog Pursustanery Phil predicts the weather. If he sees his shadow this means there will be aix more weeks of writer. If he does not, this means that he predicts an early spring. Use the clues below to determine how many times Phil has predicted six more weeks writer.

Clue #F. Phil has made 122 total recorded predictions. Clue #2: Phil has predicted six more weeks of winter 86 more times than he has predicted an early spring.



Math Challenge Washington's Days in Office

George Washington was inaugurated as the First president of the United States on April 30, 1789 and left office on March 4, 1797. How many days was George Washington president? Remember that 1792 and 1796 were leap years.



Math Challenge Oscar Weight

In late February, the Academy Awards are presented to the best films of the previous year. The statuette the winners receive is called an Oscar. Sach Oscar weights 85 pounds. 24 that Oscars will be awarded. If the Oscars are divided evenly on 3 tables before the ceremony, how much weight would each of the tables need to hold?



Oscar Engravings

In late February, the Academy Awards (or Oscars) are awarded to the best Flims of the previous year. In order to keep the winners secret, an engineed label to put on the Oscars made for every nominee. The winners labels are put on the Oscars after the awards show. The rest of the labels are recycled. If there or 24 Uoscar categories and 5 nominees in each category, how many Oscar labels will be recycled?



Math Challenge Lincoln's Days in Office Abraham Lincoln served as the sixteenth president of the United States from March 4, 1861 - April 15, 1865. How many days was Abraham Lincoln president? Remember that 1864 was a leap year.



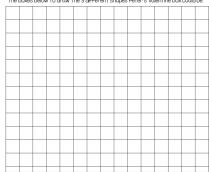
Math Challenge Valentine Box - Perimeter Peter's Valentine box is a quadrilateral that has a perimeter of H units. Use the boxes below to draw the 3 dfferent shapes Peter's Valentine box could b





Valentine Box - Area

Peter's Valentine box is a quadrilateral that has an area of IZ square units. Use the boxes below to draw the 3 different shapes Peter's Valentine box could be





Math Challenge Hundreds Day Project

For the one hundredth day of school Miss Honey wants to do an edible art project with her students. Each of her 24 students will need 100 pieces of candy for the project. If the candy comes wrapped in sets of 10, how may sets of candy will Miss Honey need to buy?

Show your work in the box below



There are a number of events planned at Gobbler's Knob for Groundhog Day. Use the clues below to determine what time Punxsutawney Phil's prediction will be announced.

Clue #1: The gates at Gobbler's Knob open at 3:00 a.m. Clue #2: Phil's prediction is announced one hour before chainsaw sculpture



13 Brainteasers

112 4 12 15 9 6 n of which two groundhogs is 11? WINTER Sports Brainteaser Oscar Screenings Five classic Oscar best picture nominees are being shown at a local movie theater. Use the clues below to determine which film is being shown in which theater and complete the Now Showling sign. Cut out the cards at the bottom of the page to help you if you would like. Toy Story 3 is playing between E.T. and Stor Wars.
E.T. is playing two theaters down from Mary Poppins.
Beauty and the Beast is not playing in theater 1
Stor Wars is playing two theaters down from Beauty and the Beast. -34 NOW SHOWING

competed in a different Winter Olympic event (hackey, skiling, speed skating, and bobsled). They each earned at least one Olympic medal (1. gold, 1 silver, 1. bronze, 2 golds).

- Val does not play hockey.
- The skier came in second place.
 The girls (Julie and Tara) competed in bobsled and skiing.
- Tana does not know how to ski. The speed skater earned more than one Olympic medal.



		0 0
Val competed in	and earned	medal(s).
James competed in	and earned	medal(s).
Julie competed in	and earned	medal(s).
Tara competed in	and earned	medal(s).



Arrange the letters in LOVE so there is only one of each letter in the





Heart Shaped Boxes

There are 5 heart shaped boxes of chocolates. Each box has a different flavor of chocolates. Use the clues below to determine what flavor of chocolates are in each box

- 1. The double chocolate box is three boxes away from the peanut
- The mint chocolates are to the right of the peanut butte
- There is one box between the mint and the lemon chocolates. The vanilla cream box is to the right of the lemon.

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.



You've Got Mail Brainteaser

- Kelton's letter is to the left of Myra's. There is one letter between Bella's and Myra's.

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



	Bella	Jaxon	Kelton	Myra	Scott
--	-------	-------	--------	------	-------

There are five valentine cards in a row. Use the clues below to determine

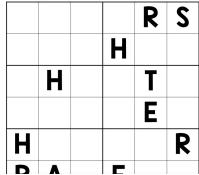
- 1. Ella's card is next to June's
- 2. Kurt's card is between Dan's and Christie's.
 3. Christie's card is next to Ella's.
 4. There is only one card to the right of Ella's.

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





HEARTS Brainteaser





Hundreds Day 100 Equations Challenge

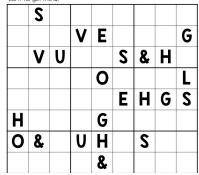
Using only the digits 1 and 0, write a number sentence that is equal to each number 1-100 in the box next to the number. You can repeat the digits 1 and 0 as many times as you would like and can use addition, subtraction, multiplication, or division as part of

П	1	16	31	
	2	17	32	
	3	18	33	
	4	19	34	
	5	20	35	
	6	21	36	
	7	22	37	
П	8	23	38	
П	٩	24	39	
П	10	25	40	
ı	11	26	41	
	12	27	42	
	13	28	43	
	14	29	44	
	15	30	45	



LOVE & HUGS Brainteaser

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







The difference between which two groundhogs is 19?

9. Which aroundhoa is a factor of 100?

10. Which groundhog is a factor of 81?

which 3 groundhogs are even when tripled?_

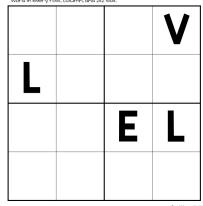
12. What is the sum of all of the groundhogs?

13. Which aroundhoa when tripled is half of 90?



I LOVE You Brainteaser

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



Name				á
Math Grour There are a number of events planne	Challenge Monday Challenge All Monday Charles Challenge All Monday Charles Cha	ow c yc decide when low id you keep us to solve the	ces explaining how you found your answe re to start? What did you do first, seco track of your work? What strategies problem?	er. ond,
There are a number of events planned Use the clues below to determine who be announced. Clue #1: The gates at Gobbler's Krunchen Clue #2: Phil's prediction is announced.	one hour before chainsaws all place	SOCOP	1e	
carving. Clue #3: Chainsaw sculpture carvir by groundhog BINGO. Clue #4: Groundhog BINGO begins 8	g/ 12 Sul of minion performance of the contract of the contrac	age fo		
Show your wo	studer			
	explain	their	•	
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	1000			





Rank	Country	Gold	Silver	Bronze	Total Medals
Т	Russia	13	H	9	33
2	United States	9	7	12	28
3	Norway	1	5	10	26
4	Canada	10	10	5	25
5	Netherlands	8	7	9	24



	There an differer mbinatio candy	nt ns of
T	PS	GD
2	PS	CH
3	PS	GB
4	PS	FD
5	GD	CH
6	GD	GB



I	RC	С	DC	10	RC	N	M
2	RC	С	PB	Ш	С	DC	PB
3	RC	С	N	12	С	DC	N
4	RC	С	М	13	С	DC	М
5	RC	DC	PB	IH.	С	PB	N
6	RC	DC	N	15	С	PB	М
7	RC	DC	М	16	DC	PB	N
	no.				- 0.0		



George Washington was in office for 2,866 days.					
1789	Agril - I day May - 3 days June - 30 days July - 3 days August - 3 days September - 30 days October - 3 days November - 30 days December - 30 days Total days 1784 246 days				
1790	365 days				
179	365 days				
1792	366 days (leap year)				
1793	365 days				



1861	March - 28 days (3I-3=28)
	April - 30 days
	May - 3l days
	June - 30 days
	July - 3l days
	August - 3l days
	September - 30 days
	October - 3I days
	November - 30 days
	December - 3I days
	Total days in 1861-303 days
1862	365 days
1863	365 days

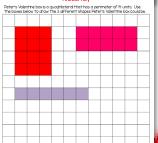


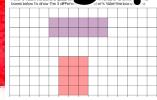


Each table will need to hold 68 pounds



Math Challenge Valentine Box - Perimeter Answer Key









rsculpture carving begins 2 hours 45 minutes before



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NOM SHOMING













Christie	Dan	Ella	June	Kurt
i				© ivarmacasiyon

d	1	1+0+1	16		34		
	2	1-1-2	17		32		
	3	14143	18		33		
ı	4	1414144	19		34		
	5	10-1-1-1-1-5	20		35		
	6	(1+1+1) × (1+1)	21		36		
	7	10-1-1-1	22		37		







I LOVE You Brainteaser



HEARTS Brainteaser







LOVE & HUGS Brainteaser





Math Challenge Resource

Conversions & Calendar

I mile = 5.280 feet I yard = 3 feet I foot = 12 inches

addition problem

3 thre

Numt

lone

20 t

30 H

40 forty

50 fifty

60 sixty

70 sevent

80 eighty

90 ninety

100 one hu

1.000 one t

I pound (lb.

I pint = 2 cups I cup = 8 ounces

1 dozen = 12

Heap year = 366 do I 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

2 two

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

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

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 tart out you alaily mati Il groups to talk through it and solve it

er to a **small group** of students as one of hop rotations or use them with your

(Calendar math, 2 and 3-digit addition, organizing data)

(Calendar math. 2 and 3-digit addition, organizing data) Oscar Weight (Addition with halves, division, weight)

Valentine Box - Perimeter (Logical thinking, addition, perimeter, guess and check) /alentine Box - Area (Logical thinking, addition, area, guess and check) Hundreds Day Project (Multiplies of ten, multiplication, division)
Groundhog Time (Elapsed time, addition and subtraction with minutes and hours)

*All math challenges come with a lined page for written responses focused on strategies

Brainteasers

 $\underline{\text{Croundhog Math \#1}}$ (Sums and differences with numbers to 20, doubling and tripling numbers)

Groundhog Math #2 (Sums, differences, products, and multiples with numbers to 50)

Oscar Screenings (Logical thinking, guess and check)
Heart Shaped Boxes (Logical thinking, guess and check)

Winter Athletes (Logical thinking, guess and check) You've Got Mail (Logical thinking, guess and check) Valentine Cards (Logical thinking, guess and check)

Hundreds Day 100 Equations Challenge (Basic arithmetic using digits 1 and 0)

LOVE Logic Puzzle (Logical thinking, guess and check, easier)

LOVE You Logic Puzzle (Logical thinking, guess and check, easier)

HEARTS Logic Puzzle (Logical thinking, guess and check, more difficult)
WINTER Sports Logic Puzzle (Logical thinking, guess and check, more difficult) LOVE & HUGS Logic Puzzle (Logical thinking, guess and check, most difficult)

Also includes

<u>Student resource page</u> with common conversions and extra info students might need to help solve these problems. Perfect to use for homework or centers!

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Answerkeys for every problem

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How to View Student Work with Google Classroom

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

Questions?

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Thank you SUPER Teacher