Name_____



Math Challeng
Field Trip Group

There are five 3rd grade classes at Natureland E
trip of the year, all third grade students are goi
If every class has 27 students and the Children's
for every 3 students on the trip, how many adu
trip?

Show

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Name_____



Flower Patch Design #1

Complete the missing boxes in the table below. Then label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter
Marigolds	16 sq. units	
Begonia	15 sq. units	
		24 units
		20 units
Hyacin	10	its

Flower Patch Map

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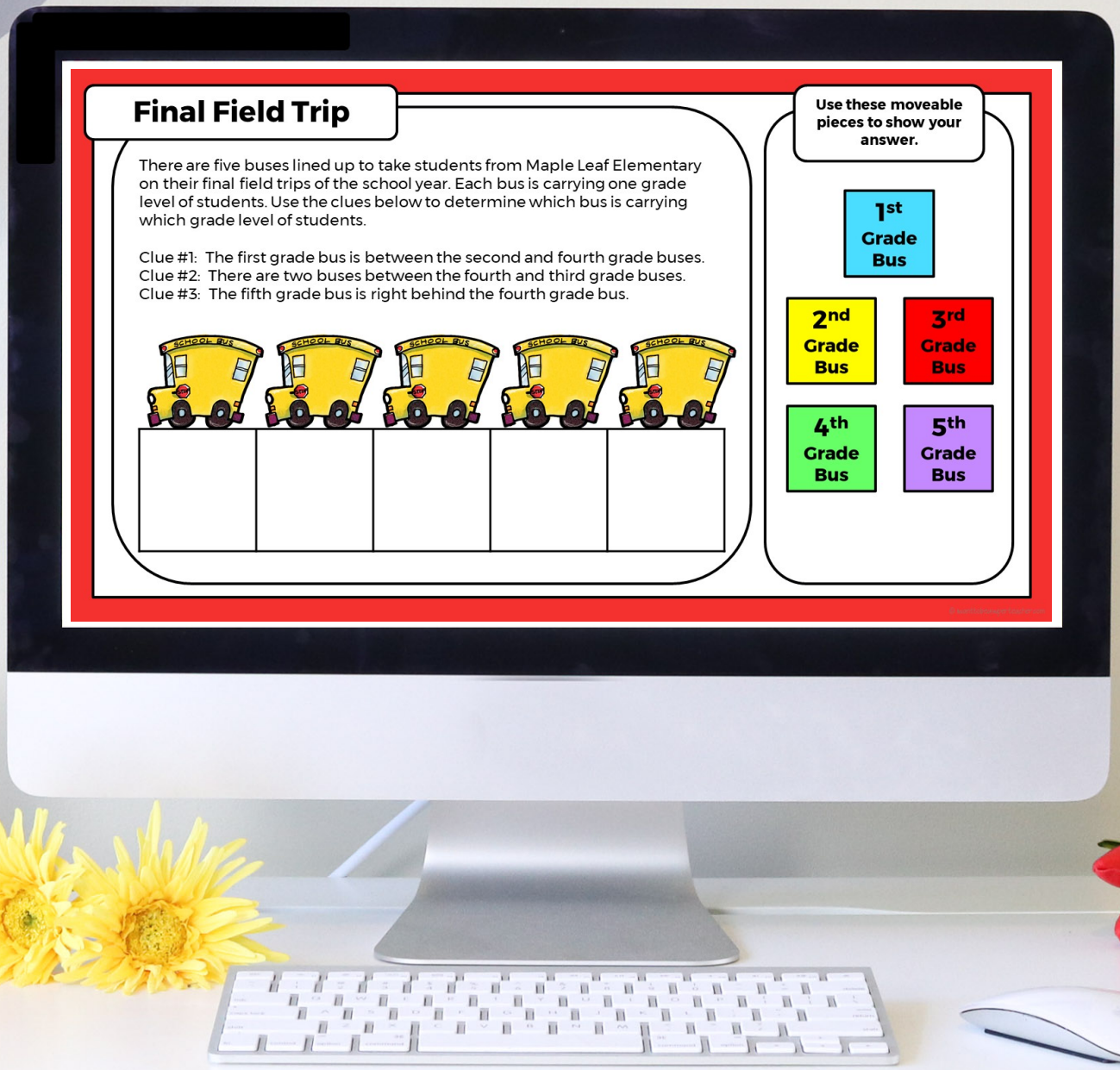
Math Challenges & Brainteasers for the End of the School Year

Themes include: Field Trips, Talent Show, Ice Cream, Mother's Day, Flowers, Gardens, & Field Day

Print & Go PDF


Ice Cream Cones
Sherbet
Mint
Lemon
Vanilla
Flower Patch Design
Name
Type of Flower
Area
Daffodils
9 sq. units
Roses
16 sq. units
Daisies
30 sq. units
Tulips
20 sq. units
Lilies
15 sq. units
Sunflowers
10 sq. units
Sporty Sentences
Name
Balance each set of equations by determining the number in each set of number sentences.
1. 12 + 19 = 46 - 15
2. 30 - 18 = 60 - 48
4. 50 - 16 = 44 - 10
5. 33 + 33 = 70 - 4
7. 36 + 6 = 60 - 18
8. 85 - 26 = 10 + 49
10. 72 + 26 = 99 - 1
11. 65 + 11 = 38 + 38
13. 90 - 43 = 27 + 20
14. 16 + 72 = 45 + 43
16. 62 + 34 = 42 + 54
17. 91 - 19 = 80 - 8

+ Google Slides versions



10 Math Challenges

Name_____



Math Challenge
Track and Field

On field day four students competed in the 100 meter dash finals. Their combined times totaled exactly one minute! Use the clues below to determine each student's finishing time.

Clue #1: Sam and Lashia's finishing times totaled 30 seconds.
Clue #2: John finished 6 seconds after Madison.
Clue #3: Lashia finished 2 seconds before Sam.

Show your work in the box below.

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Name_____



Math Challenge
May Minutes

Mrs. Haymond's students kept track of the minutes they read at home during the month of May. Use the clues below to determine how many minutes each of Mrs. Haymond's students read. Then find the total amount of hours and minutes read by Mrs. Haymond's entire class.

- Hannah read 40 more minutes than Elizabeth.
- Chloe read one hour more than Seth.
- Kendall and Eric read for 10 hours altogether.
- Jason read 140 minutes more than Chloe.
- Jessica read 105 minutes less than Anthony.
- Trevor read for 8 hours.
- Elijah read 270 minutes less than Doug.
- Ryan and Chloe read 700 minutes in all.

	Total Minutes Read
Jason	
Doug	500
Hannah	
Elijah	
Seth	360
Jessica	
Ryan	
Elizabeth	510
Chloe	
Kendall	350
Eric	
Anthony	660
Trevor	
Total Time Read (Hours and Minutes)	

Show your work here.

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Name_____

Math Challenge
Sailboat Scramble

Divide the Sailboats equally into two boxes so the sum of their numbers is equal in both.

What is the sum in each box? _____

Use the box below to show your work.



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Name_____



Math Challenge
Field Day Rotations

It's finally field day at Aspen Elementary! Every class will rotate to a number of activity stations. They will spend 12 minutes at every station. If there are 9 game stations, 3 water stations, 1 rest station, and 1 popsicle station, how long will students spend doing rotations on field day? Write your answer in hours and minutes.

Show your work in the box below.

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Name_____



Math Challenge
Ice Cream Sundaes

On the last day of school Mr. Parke's students had an ice cream sundae bar. There were three choices of ice cream: vanilla, chocolate, and strawberry. There were five types of toppings: chocolate chips, sprinkles, strawberries, bananas, and m&ms. If every sundae had one type of ice cream, and one topping, how many possible combinations of sundaes could be made?

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

Name_____



Math Challenge
Ice Cream Sundaes with Whip

During their final class party, Miss Nadal's students had ice cream sundaes. There were three choices of ice cream: vanilla, cheesecake, and birthday cake. There were four types of toppings: pie crust, chocolate syrup, gummy bears, and caramel. Every student could choose to have whipped cream. If every student chose one type of ice cream, one topping, and whether or not to add whipped cream, how many possible combinations of ice cream sundaes could be made?

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

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Name_____



Math Challenge
End of Year Slideshow

On the last day of school Mrs. Melton created a slideshow with pictures of her students. In the slideshow there are 100 pictures of classroom activities, 55 of field trips, 120 of assemblies, and 45 of holiday parties. If Mrs. Melton uses one picture per slide, and every slide plays for 3 seconds, **how many minutes** will she need to show the slideshow to her students?

Show your work in the box below.

Name_____



Math Challenge
Class Party

For the final class party, Mr. Davis is letting his students choose what they would like to do. One-third of his students will watch a movie. One-half will do art projects, and one-sixth will play games. If 8 students will be watching a movie, how many students will play games?

Show your work in the box below.

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Name_____



Math Challenge
Field Trip Groups

There are five 3rd grade classes at Natureland Elementary. For the Final Field trip of the year, all third grade students are going to the Children's Museum. If every class has 27 students and the Children's Museum requires one adult for every 3 students on the trip, how many adults will need to go on the Field trip?

Show your work in the box below.

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Name_____



Math Challenge
Garden Growth

Nyasha is growing plants to give to her mother, aunts, and neighbors for Mother's Day. She has eight pots of plants in her garden. The first plant is .75 inches tall. If each plant after the first is twice the height of the previous plant, how many feet tall is the eighth plant?

Show your work in the box below.

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16 Brainteasers

Name_____

Ice Cream Cones

There are five ice cream cones. Each cone has a different flavor of ice cream. Use the clues below to determine what flavor of ice cream is on each cone.

1. There are three cones between the sherbet and vanilla.
2. The lemon ice cream is to the right of the cookies and cream.
3. The mint ice cream is one cone to the right of the sherbet.

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_____

Awards Assembly

At the end of the school year Tabitha, Tesha, Wesley, and Wyatt were honored with awards at the school-wide assembly. Each student won a different type of award (Super Scientist, Reader Leader, Kindness Kid, Radical Writer) and came from a different grade (1st, 2nd, 3rd and 4th).

Use the clues below to determine the grade level of each student and the award each student earned.

1. The boys (Wyatt and Wesley) are not in 4th grade.
2. One of the girls won the Super Scientist Award.
3. The fourth grader won the Kindness Kid Award.
4. Tesha is in a lower grade than Wyatt.
5. The second grader won the Reader Leader Award.
6. Wyatt is not in 3rd grade.

Show your work and your answer here:

Name_____

Talent Show Tricks

At the end of the school year, these students performed different talents at the school-wide talent show. Each student performed a different talent (Magic Trick, Break Dancing, Karate, Harmonica) and came from a different grade (1st, 2nd, 3rd and 4th).

Use the clues below to determine the grade level of each student and the talent each student performed.

1. The girls (Stella and Quinn) are not in 2nd grade.
2. Luke played the harmonica.
3. The 2nd grader performed a magic trick.
4. The student in 4th grade performed karate.
5. The first grader did not perform a break dance.
6. One of the girls performed karate.
7. Quinn is not in 4th grade.

Show your work and your answer here:

Name_____

Final Field Trip

There are five buses lined up to take students from Maple Leaf Elementary on their final field trips of the school year. Each bus is carrying one grade level of students. Use the clues below to determine which bus is carrying which grade level of students.

1. The first grade bus is between the second and fourth grade buses.
2. There are two buses between the fourth and third grade buses.
3. The fifth grade bus is right behind the fourth grade bus.

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.

1st Grade Bus	2nd Grade Bus	3rd Grade Bus	4th Grade Bus	5th Grade Bus

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Name_____

Flower Patch Design •1

Complete the missing boxes in the table below. Then label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter
Marigolds	16 sq. units	
Begonia	15 sq. units	
Hydrangeas		24 units
Buttercups		20 units
Hyacinths	10 sq. units	
Chrysanthemums		18 units

Flower Patch Map

Name_____

Flower Patch Design •2

Complete the missing boxes in the table below. Then draw and label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter	Length	Width
Daffodils	9 sq. units		3 units	3 units
Roses		20 units	2 units	8 units
Daisies	30 sq. units	22 units		5 units
Tulips	20 sq. units	18 units	5 units	
Lilies		16 units	3 units	5 units
Sunflowers	10 sq. units		1 unit	10 units

Flower Patch Map

Name_____

Flower Patch Design •3

Complete the missing boxes in the table below. Then draw and label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter	Length	Width
Carnations	16 sq. units			4 units
Poppies		18 units	3 units	
Dahlias	24 sq. units			2 units
Orchids		24 units	10 units	
Petunias			7 units	1 unit
Lilacs	20 sq. units		5 units	

Flower Patch Map

Name_____

Desk Cleaning •1

Before the last week of school every student was required to clean out his or her desk. See how many school supplies students had left in their desks after the clean up by completing the BEFORE/AFTER tables below. If no rule for the table is given, determine the rule from the numbers you are given and then complete the table.

Rule: -10	
BEFORE	AFTER
19	
23	
62	52
	99
85	

Rule: -100	
BEFORE	AFTER
109	
210	
	15
	6
358	

Rule: -20	
BEFORE	AFTER
78	
102	
	96
53	
	84

Rule: -15	
BEFORE	AFTER
19	
29	
	0
70	
62	

Rule: ____	
BEFORE	AFTER
14	
65	55
26	16
102	
89	

Rule: ____	
BEFORE	AFTER
30	5
100	
	55
75	50
110	

Rule: ____	
BEFORE	AFTER
125	75
100	
205	155
300	
	110

Rule: ____	
BEFORE	AFTER
500	400
	20
	5
350	250
215	

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Name_____

Desk Cleaning •2

Before the last week of school every student was required to clean out his or her desk. See how many school supplies students had left in their desks after the clean up by completing the BEFORE/AFTER tables below. If no rule for the table is given, determine the rule from the numbers you are given and then complete the table.

Rule: -45	
BEFORE	AFTER
50	
105	
200	155
	99
80	

Rule: -19	
BEFORE	AFTER
109	
100	
	10
	59
210	

Rule: ÷ 3	
BEFORE	AFTER
36	
12	
	1
27	
	15

Rule: ÷ 5	
BEFORE	AFTER
15	
50	
	2
200	
45	

Name_____

Sporty Sentences •1

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

1. 11 + ____ = 18 − 2
2. 7 + 4 = ____ − 8
3. 5 + 5 = 8 + ____
4. ____ + 7 = 20 − 5
5. 15 − ____ = 1 + 5
6. 9 + 9 = ____ + 6
7. 6 + 9 = 4 + ____
8. 17 − 9 = ____ − 7
9. 13 + 6 = 11 + ____

Name_____

Sporty Sentences •2

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

1. ____ + 19 = 46 − 15
2. 30 − 18 = ____ − 48
3. 8 + 23 = 17 + ____
4. 50 − 16 = ____ − 10
5. 33 + ____ = 70 − 4
6. 19 + ____ = 91 − 53
7. ____ + 6 = 60 − 18
8. 85 − 26 = 10 + ____
9. 75 − 57 = ____ + 9

Name_____

BEST Brainteaser

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

		S	
T			
		T	
B			

Name_____

YEAR Brainteaser

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

			D

Name_____

FLOWER Brainteaser

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

W				R	
			E		
					R

Name_____

GARDEN Brainteaser

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

					G
				N	
R			N		

Name_____

SUNFLOWER Brainteaser

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

E								
O	S						R	F
U	N		O				W	
					W		U	L
L	R		S					
		N	E		R			
				W	F			
					E	O		
S							E	W

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Name_____



Math Challeng
Class Party

For the final class party, Mr. Davis is letting s
would like to do. One-third of his students
art projects, and one-sixth will play game
movie, how many students will play game

Sho

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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?



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

Answer Keys

Math Challenge
Track and Field
Answer Key

On field day Four students competed in the 100 meter dash Finals. Their combined times totaled exactly one minute! Use the clues below to determine each student's finishing time.

Clue #1: Sam and Lashia's finishing times totaled 30 seconds.
Clue #2: John Finished 6 seconds ahead of Madison.
Clue #3: Lashia Finished 2 seconds before Sam.

Show your work in the box below.

John Finished in 18 seconds.
Sam Finished in 16 seconds.
Madison Finished in 12 seconds.
Lashia Finished in 14 seconds.

The most efficient way to solve this problem is to use clue #1 to determine that if Sam and Lashia's finishing times totaled 30 ...

Math Challenge
May Minutes
Answer Key

Mrs. Haymond's students kept track of the minutes they read at home during the month of May. Use the clues below to determine how many minutes each of Mrs. Haymond's students read. Then find the total amount of hours and minutes read by Mrs. Haymond's entire class.

- Hannah read 40 more minutes than Elizabeth.
- Chloe read one hour more than Seth.
- Kendall and Eric read For 10 hours altogether.
- Jason read 40 minutes more than Chloe.
- Jessica read 105 minutes less than Anthony.
- Trevor read For 8 hours.
- Elijah read 270 minutes less than Doug.
- Ryan and Chloe read 700 minutes in all.

	Total Minutes Read
Jason	460
Doug	500

Math Challenge
Sailboat Scramble
Answer Key

Divide the Sailboats equally into two boxes so the sum of their numbers is equal in both.

What is the sum in each box? _____

Use the box below to show your work.

Combination 1	Combination 2
2	7
15	8
4	9
11	11

Math Challenge
Field Day Rotations
Answer Key

It's Finally Field day at Aspen Elementary! Every class will rotate to a number of activity stations. They will spend 12 minutes at every station. If there are 9 game stations, 3 water stations, 1 rest station, and 1 popsicle station, how long will students spend doing rotations on Field day? Write your answer in hours and minutes.

Show your work in the box below.

Students will need 2 hours 48 minutes to rotate to all stations during Field day.

9+3+1+1=14 total stations

Math Challenge
Ice Cream Sundaes
Answer Key

On the last day of school Mr. Parker's students had an ice cream sundae bar. There were three choices of ice cream: vanilla, chocolate, and strawberry. There were five types of toppings: chocolate chips, sprinkles, strawberries, bananas, and m&m's. If every sundae had one type of ice cream, and one topping, how many possible combinations of sundaes could be made?

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

There are 15 possible ice cream sundae combinations.

	Ice Cream	Topping
1	Vanilla	Chocolate Chips

Math Challenge
Ice Cream Sundaes with Whip
Answer Key

During their Final class party, Miss Nada's students had ice cream sundaes. There were three choices of ice cream: vanilla, cheesecake, and birthday cake. There were Four types of toppings: pie crust, chocolate syrup, gummy bears, and caramel. Every student could choose to have whipped cream. If every student chose one type of ice cream, one topping, and whether or not to add whipped cream, how many possible combinations of ice cream sundaes could be made?

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

There are 24 possible ice cream sundae combinations.

	Ice Cream	Topping	Whipped Cream		Ice Cream	Topping	Whipped Cream
1	V	PC	Y	13	C	GB	Y
2	V	PC	N	14	C	GB	N
3	V	CS	Y	15	C	C	Y
4	V	CS	N	16	C	C	N
5	V	GB	Y	17	BC	PC	Y
6	V	GB	N	18	BC	PC	N
7	V	C	Y	19	BC	CS	Y
8	V	C	N	20	BC	CS	N
9	C	PC	Y	21	BC	GB	Y
10	C	PC	N	22	BC	GB	N
11	C	CS	Y	23	BC	C	Y
12	C	CS	N	24	BC	C	N

Math Challenge
End of Year Slideshow
Answer Key

On the last day of school Mrs. Melton created a slideshow with pictures of her students. In the slideshow there are 100 pictures of classroom activities, 55 of Field trips, 120 of assemblies, and 45 of holiday parties. If Mrs. Melton uses one picture per slide, and every slide plays For 3 seconds, **how many minutes** will she need to show the slideshow to her students?

Show your work in the box below.

It will take 16 minutes to show the entire slideshow.

100+55+120+45=320 total slides
320 slides x 3 second per slide = 960 seconds
960 seconds ÷ 60 seconds per minute= 16 minutes

Math Challenge
Class Party
Answer Key

For the Final class party, Mr. Davis is letting his students choose what they would like to do. One-third of his students will watch a movie. One-half will do art projects, and one-sixth will play games. If 8 students will be watching a movie, how many students will play games?

Show your work in the box below.

4 students will play games at the class party.

8 students = 1/3 of the class
8x3=24 students in the class altogether
One-sixth of 24 = 4 students

Math Challenge
Field Trip Groups
Answer Key

There are five 3rd grade classes at Natureland Elementary. For the Final Field trip of the year, all third grade students are going to the Children's Museum. If every class has 27 students and the Children's Museum requires one adult For every 3 students on the trip, how many adults will need to go on the Field trip?

Show your work in the box below.

45 adults will need to go on the Field trip.

5 classes x 27 students per class = 135 total students
135 students ÷ 3 students per adult = 45 adults needed

If students are unable to multiply and divide larger numbers, they can also solve this problem this way:
27 students per class ÷ 3 students per adult = 9 adults needed
9 adults needed per class x 5 classes = 45 total students

Math Challenge
Garden Growth
Answer Key

Nyasha is growing plants to give to her mother, aunts, and neighbors For Mother's Day. She has eights pots of plants in her garden. The First plant is .75 inches tall. If each plant after the First is twice the height of the previous plant, how many Feet tall is the eighth plant?

Show your work in the box below.

The eighth plant is 8 Feet tall.

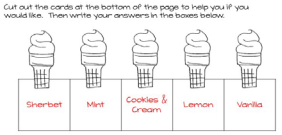
Plant #	# of inches
1	.75
2	1.5
3	3

Ice Cream Cones
Answer Key

There are five ice cream cones. Each cone has a different flavor of ice cream. Use the clues below to determine what flavor of ice cream is on each cone.

1. There are three cones between the sherbet and vanilla.
2. The lemon ice cream is to the right of the cookies and cream.
3. The mint ice cream is one cone to the right of the sherbet.

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.



Cookies & Cream	Lemon	Mint	Sherbet	Vanilla

Awards Assembly
Answer Key

At the end of the school year Tabitha, Tesina, Wesley, and Wyatt were honored with awards at the school-wide assembly. Each student won a different type of award (Super Scientist, Reader Leader, Kindness Kid, Radical Writer) and came From a different grade (1st, 2nd, 3rd and 4th).

Use the clues below to determine the grade level of each student and the award each student earned.

1. The boys (Wyatt and Wesley) are not in 4th grade.
2. One of the girls won the Super Scientist Award.
3. The Fourth grader won the Kindness Kid Award.
4. Tesina is in a lower grade than Wyatt.
5. The second grader won the Reader Leader Award.
6. Wyatt is not in 3rd grade.

Show your work and your answer here:






Talent Show Tricks
Answer Key

At the end of the school year, these students performed different talents at the school-wide talent show. Each student performed a different talent (Magic Trick, Break Dancing, Karate, Harmonica) and came From a different grade (1st, 2nd, 3rd and 4th).

Use the clues below to determine the grade level of each student and the talent each student performed.

1. The girls (Stella and Quinn) are not in 2nd grade.
2. Luke played the harmonica.
3. The 2nd grader performed a magic trick.
4. The student in 4th grade performed karate.
5. The First grader did not perform a break dance.
6. One of the girls performed karate.
7. Quinn is not in 4th grade.

Show your work and your answer here:



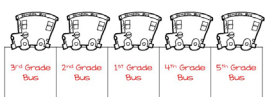


Final Field Trip
Answer Key

There are Five buses lined up to take students From Maple Leaf Elementary on their Final Field trips of the school year. Each bus is carrying one grade level of students. Use the clues below to determine which bus is carrying which grade level of students.

1. The First grade bus is between the second and Fourth grade buses.
2. There are two buses between the Fourth and third grade buses.
3. The Fifth grade bus is right behind the Fourth grade bus.

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.

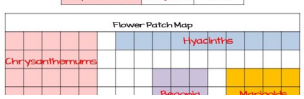


Flower Patch Design •1
Answer Key

Complete the missing boxes in the table below. Then label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter
Marigolds	16 sq. units	16 units
Begonia	15 sq. units	16 units
Hydrangeas	35 sq. units	24 units
Buttercups	16 sq. units	20 units
Hyacinths	10 sq. units	22 units
Chrysanthemums	20 sq. units	18 units

Flower Patch Map



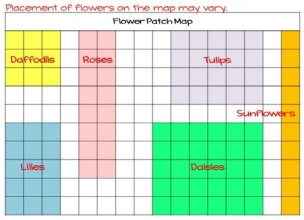
Flower Patch Design •2
Answer Key

Complete the missing boxes in the table below. Then draw and label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter	Length	Width
Daffodils	9 sq. units	12 units	3 units	3 units
Roses	16 sq. units	20 units	2 units	8 units
Daisies	30 sq. units	22 units	6 units	5 units
Tulips	20 sq. units	18 units	5 units	4 units
Lilies	15 sq. units	18 units	3 units	5 units
Sunflowers	10 sq. units	22 units	1 unit	10 units

Placement of flowers on the map may vary.

Flower Patch Map



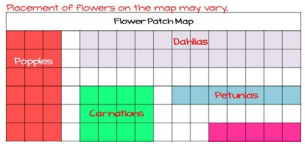
Flower Patch Design •3
Answer Key

Complete the missing boxes in the table below. Then draw and label each section of flowers on the Flower Patch Map.

Type of Flower	Area	Perimeter	Length	Width
Carnations	16 sq. units	16 units	4 units	4 units
Poppies	18 sq. units	18 units	3 units	6 units
Dahlias	24 sq. units	28 units	12 units	2 units
Orchids	20 sq. units	24 units	10 units	2 units
Petunias	7 sq. units	16 units	7 units	1 unit
Lilacs	20 sq. units	18 units	5 units	4 units

Placement of flowers on the map may vary.

Flower Patch Map



Desk Cleaning •1
Answer Key

Before the last week of school every student was required to clean out his or her desk. See how many school supplies students had left in their desks after the clean up by completing the BEFORE/AFTER tables below. If no rule For the table is given, determine the rule From the numbers you are given and then complete the table.

Rule: -10		Rule: -100		Rule: -20		Rule: -15	
BEFORE	AFTER	BEFORE	AFTER	BEFORE	AFTER	BEFORE	AFTER
19	9	109	9	78	58	19	4
23	13	210	110	102	82	29	14
62	52	115	15	116	96	15	0
109	99	106	6	53	33	70	55
85	75	358	258	104	84	62	47

Desk Cleaning •2
Answer Key

Before the last week of school every student was required to clean out his or her desk. See how many school supplies students had left in their desks after the clean up by completing the BEFORE/AFTER tables below. If no rule For the table is given, determine the rule From the numbers you are given and then complete the table.

Rule: -45		Rule: -19		Rule: ÷ 3		Rule: ÷ 5	
BEFORE	AFTER	BEFORE	AFTER	BEFORE	AFTER	BEFORE	AFTER
50	5	109	90	36	12	15	3
105	60	100	81	12	4	50	10
200	155	29	10	3	1	10	2
144	99	78	59	27	9	200	40
80	35	210	191	45	15	45	9

Sporty Sentences •1
Answer Key

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

1. 11 + 5 = 18 - 2	2. 7 + 4 = 19 - 8	3. 5 + 5 = 8 + 2
4. 8 + 7 = 20 - 5	5. 15 - 9 = 1 + 5	6. 9 + 9 = 12 + 6
7. 6 + 9 = 4 + 11	8. 17 - 9 = 15 - 7	9. 13 + 6 = 11 + 8
10.	11.	12.

Sporty Sentences •2
Answer Key

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

1. 12 + 19 = 46 - 15	2. 30 - 18 = 60 - 48	3. 8 + 23 = 17 + 14
4. 50 - 16 = 44 - 10	5. 33 + 33 = 70 - 4	6. 19 + 19 = 91 - 53
7. 36 + 6 = 60 - 18	8. 85 - 26 = 10 + 49	9. 75 - 57 = 9 + 9
10. 72 + 26 = 99 - 1	11. 65 + 11 = 38 + 38	12. 44 - 25 = 60 - 41
13. 90 - 43 = 27 + 20	14. 16 + 72 = 45 + 43	15. 60 - 38 = 9 + 13
16. 62 + 34 = 42 + 54	17. 91 - 19 = 80 - 8	18. 55 + 29 = 18 + 66

BEST Brainteaser
Answer Key

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

E	B	S	T
T	S	B	E
S	E	T	B

YEAR Brainteaser
Answer Key

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

A	R	E	Y
E	Y	A	R

FLOWER Brainteaser
Answer Key

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

W	F	E	O	R	L
R	O	L	E	F	W
F	W	O	L	E	R

GARDEN Brainteaser
Answer Key

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

N	R	E	D	A	G
D	G	A	R	N	E
R	E	D	N	G	A

SUNFLOWER Brainteaser
Answer Key

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

E	W	R	F	U	S	L	O	N
O	S	L	W	E	N	U	R	F
U	N	F	O	R	L	E	W	S
F	E	S	N	O	W	R	U	L
L	R	O	S	F	U	W	N	E
W	U	N	E	L	R	S	F	O
R	O	E	L	W	F	N	S	U
N	F	W	U	S	E	O	L	R
S	L	U	R	N	O	F	E	W

Math Challenge Resourc

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 subtraction problem

Product = the answer to a multiplication problem

Quotient = the answer to division problem

Factors = the numbers th divide exactly into another number (4 is a factor of 2 since 20 can be divided eve by 4)

Multiple = the product of number and any other wh number (20 is a multiple since 5x4=20)

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

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

70 seventy
80 eighty
90 ninety
100 one hundre
1,000 one thou

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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 partners or small groups to talk through it and solve it together.
- Give a challenge or brainteaser to a small their **independent ma** advanced small math
- Use the problems as a **problem solving strat** attacking a multi-step
- Keep a stack of challen for any student who w
- Choose one or two **cha** student who can solve have them available as
- Use the "end of year" th during down times or b



Clickable Table of Contents

Math Challenges
Track and Field (Adding two-digit numbers, time, guess and check, logical thinking)
May Minutes (Adding and subtracting three-digit numbers, converting minutes to hours)
Sailboat Scramble (Adding 1 and 2-digit numbers, guess and check, logical thinking)
Field Day Rotations (Addition, multiplication, converting minutes to hours)
Ice Cream Sundaes (Combinations, organizing data, easier)
Ice Cream Sundaes with Whip (Combinations, organizing data, more difficult)
End of Year Slideshow (Addition, multiplication, converting seconds to minutes, division without remainders)
Class Party (Fractions, using fractional parts to find size of a group)
Field Trip Groups (Adding multiple 2-digit numbers, division without remainders)
Garden Growth (Doubling numbers, adding decimals (.75 & .5), converting inches to feet and inches)

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

Brainteasers
Ice Cream Cones (Logical thinking, guess and check)
Awards Assembly (Logical thinking, guess and check)
Talent Show Tricks (Logical thinking, guess and check)
Final Field Trip (Logical thinking, guess and check)
Flower Patch Design #1 (Identifying area and perimeter given rectangles, easier)
Flower Patch Design #2 (Drawing rectangles given partial information about area, perimeter, length, and width, more difficult)
Flower Patch Design #3 (Drawing rectangles given partial information about area, perimeter, length, and width, most difficult)
Desk Cleaning #1 (In/Out Tables, subtraction only)
Desk Cleaning #2 (In/Out Tables, subtraction and division)
Sporty Sentences #1 (Addition and subtraction to 20, balancing equations)
Sporty Sentences #2 (Addition and subtraction to 100, balancing equations)
BEST Logic Puzzle (Logical thinking, guess and check, easier)
YEAR Logic Puzzle (Logical thinking, guess and check, easier)
FLOWER Logic Puzzle (Logical thinking, guess and check, more difficult)
GARDEN Logic Puzzle (Logical thinking, guess and check, more difficult)
SUNFLOWER 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

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



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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 Forces

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

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