

Name _____



Math Challenge Big Ben

Big Ben is the nickname for the largest bell inside England. Big Ben rings one time for every hour on rings 4 times at 4:00 (a.m. and p.m.), 2 times at 2 at 12:00 (a.m. and p.m.). How many times does Big (Count 12:00 a.m. only once in your calculations)

Math Challenges & Brainteasers with travel themes including: passports, packing, the beach, flying, photos, airplanes, road trips, and famous landmarks

Name _____

Seat Assignments Brainteaser

Addie, Evan, Kevin, and McKell are going on vacation. They are each sitting in row 9 or 10 on the same plane, but they are not sitting together.

Use the clues and the seat map below to determine where each person is sitting.

- Kevin is sitting right in front of Addie.
- McKell is sitting in the same row as Kevin.
- There is one person sitting between McKell and Evan.
- Addie is in a window seat.
- Kevin is not in a window seat.
- Addie is not in row 10.
- Evan is seated by a window.



	A	B	C	D	E	F	Window
Row 9							
Row 10							

Addie is sitting in seat _____.

Evan is sitting in seat _____.

Kevin is sitting in seat _____.

McKell is sitting in seat _____.

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Passport Order #1

There are five stamps in a row in Amanda's passport. Use the clues below to determine the order of the stamps in Amanda's passport.

1. There are two stamps between the India and Italy stamps.
2. There are two stamps between the Germany and Netherlands stamps.
3. There are three stamps between the Italy and Netherlands stamps.
4. The Australia stamp is to the left of the Germany stamp.

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

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Australia



Germany



Italy

+ Google Slides versions

Passport Stamps

When you travel to another country, you receive a stamp in your passport. Leah, Derek, and Dwayne have 30 passport stamps altogether. Use the clues below to determine how many stamps each person has in his or her passport.

Clue #1: Derek has twice the number of stamps as Leah.

Clue #2: Dwayne has three times the number of stamps as Leah.

Name	Stamps
Leah	
Derek	
Dwayne	

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



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Name _____



Math Challenge Passport Stamps

When you travel to another country, you receive a stamp in your passport. Leah, Derek, and Dwayne have 30 passport stamps altogether. Use the clues below to determine how many stamps each person has in his or her passport.

Clue #1: Derek has twice the number of stamps as Leah.
Clue #2: Dwayne has three times the number of stamps as Leah.

Show your work in the box below.

Name _____



Math Challenge Beach Reads

Claire spends most of her day reading on the beach during her vacation. Use the clues below to determine how many pages Claire has read.

Clue #1: I am a three digit number.
Clue #2: The sum of my digits is 12.
Clue #3: The digit in my ones place is seven more than the digit in my tens place.
Clue #4: The digit in my hundreds place is two more than the digit in my tens place.

Use the box below to show your work.

Name _____



Math Challenge Snapping

Lynn went on a 3 day trip to Boston, Massachusetts. During her vacation, she took a ton of pictures! Use the clues below to determine how many pictures Lynn took during her trip.

Clue #1: On the first day of her trip Lynn took twice the number of pictures she took on the second day.
Clue #2: On the second day of her trip Lynn took 45 more pictures than she did on the third day.
Clue #3: Lynn took 60 pictures on the third day of her trip.

Show your work in the box below.

Name _____



Math Challenge Packing Plan

Autumn is packing for a trip. She packs two types of shirts: short sleeve and long sleeve. She packs three types of pants: jeans, capris, and shorts. She packs three kinds of shoes: hiking boots, running shoes, sandals. IF she wears one shirt, one pant, and one type of shoe every day, how many possible outfit combinations does Autumn have?

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

Name _____



Math Challenge Swim, Sand, and Sunscreen

Calvin is swimming at the beach in Cabo San Lucas, Mexico. He goes outside at 9:45 a.m. and comes back to his room at 4:00 p.m. IF Calvin's mom makes him put on sunscreen every 30 minutes he is outside, starting right at 9:45 a.m., how many times will he put on sunscreen?

Show your work in the box below.

Name _____



Math Challenge Travel Size Me

Chris is buying travel sized items for his upcoming vacation. He has a list of items he wants to buy. The items and their costs are listed below. Chris buys five total items. How much money did he spend? (Show your work in the box below.)

Travel Size Shampoo	\$2.25
Travel Size Sunscreen	\$1.50
Travel Size First Aid Kit	\$3.00
Travel Size Insect Repellent	\$1.25
Travel Size Band-Aids	\$1.00

Name _____



Math Challenge Split Up Sightseeing

On the final day of their class trip to Washington DC, Mr. Parke lets his students choose what they would like to see. Two-thirds of his students will visit the Washington Monument. One-fourth will go to the Museum of Natural History, and one-twelfth will go to the White House. IF 6 students will go to the Museum of Natural History, how many students will be at the Washington Monument?

Show your work in the box below.

Name _____



Math Challenge Stair Climbers

The Statue of Liberty and The Leaning Tower of Pisa are two landmarks with stairways tourists can climb for amazing views! IF you are lucky enough to ascend to the top of The Statue of Liberty's crown you will climb 394 stairs. IF you go to the top of the Leaning Tower of Pisa you will climb 284 steps. How many more stairs will you need to climb IF you go up (and back down) the Statue of Liberty than The Leaning Tower of Pisa?

Show your work in the box below.

Name _____



Math Challenge Big Ben

Big Ben is the nickname for the largest bell inside the Elizabeth Tower in London, England. Big Ben rings one time for every hour on the hour. For example, Big Ben rings 4 times at 4:00 (am and pm), 2 times at 2:00 (am and pm), and 12 times at 12:00 (am and pm). How many times does Big Ben ring in one 24 hour period? (Count 12:00 am and 12:00 pm.)

Show your work in the box below.

Name _____



Math Challenge The London Eye

The London Eye is a giant Ferris wheel in London, England. There are 32 glass capsules on The London Eye. Each capsule can hold up to 25 people. IF every capsule is full, how many people can be on the London Eye at one time?

Show your work in the box below.

Name _____



Math Challenge The Eiffel Tower

The Eiffel Tower in Paris, France is one of the most famous structures in the world. Did you know it has been painted a number of different colors? It was first painted red in 1887 before it was painted brownish-red when it was finished two years later. It was then painted ochre brown three years after that. In 1899 it was painted five shades of yellow. Then it was painted a yellow-brown in 1907, 1917, 1924, 1932, 1934, and 1947. In 1954 and 1964 it was painted brownish red. Seven years later it was painted the color you see today, "Eiffel Tower Brown", and has been repainted every 7 years since then. Including the 1887 painting, how many times has the Eiffel tower been painted between 1887 and 2007?

Show your work in the box below.

Name _____



Math Challenge The Taj Mahal

The Taj Mahal in Agra, India is one of the seven wonders of the world. It is a beautiful mausoleum made of white marble. The Taj Mahal was built for Mumtaz Mahal, the wife of Emperor Shah Jahan. It took many years to build! Construction started in 1631 and continued until 1653. The Taj Mahal, including the outlying buildings and gardens, were finished in 1653. How many months did it take to complete The Taj Mahal? Count 12 months for every year and 1653 as one whole year.

Show your work in the box below.

Name _____



Math Challenge The Parthenon

The Parthenon is a temple in Athens, Greece that was built as a monument to Athena between 447 BC and 432 BC. The Parthenon has a rectangular floor plan with columns on every side. IF you visit the Parthenon you will see 17 outer columns on the north and south sides, and 8 columns on the east and west sides. Every outer column is 34 feet high. IF you were to line up the outer columns of the Parthenon from end to end, how long would this structure be?

Show your work in the box below.

Math Challenges

Name _____

Ready for Takeoff Brainteaser

There are five planes lined up to depart from O'Hare International Airport in Chicago. Each plane is going to a different destination. Use the clues below to determine which plane is going to which destination.

1. The plane going to Rome is between the planes going to Mumbai and Montreal.
2. The plane traveling to Tokyo is one plane behind the plane traveling to Mumbai.
3. There are three planes between the plane going to Paris and the plane heading to Tokyo.

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.



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Name _____



ROAD Brainteaser

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

A		D	

Name _____

Determine the Destination Brainteaser

Heldi, April, Dave, and Jesse are all flying to different states (Colorado, Florida, Washington, and Texas). Each person's flight departs at a different time (9:00 a.m., 11:30 a.m., 2:30 p.m., and 5:00 p.m.).

Use the clues below to determine each person's destination and the time his or her flight leaves.

1. The boys (Dave and Jesse) are not flying to Florida.
2. The person leaving at 5:00 p.m. is going to Washington.
3. April's flight leaves 3 hours after Heldi's.
4. Jesse is not traveling to Texas.
5. The flight to Florida leaves before noon.
6. Dave's flight leaves 8 hours after Jesse's.

Show your work and your answer here:

Name _____

Seat Assignments Brainteaser

Addie, Evan, Kevin, and McKell are going on vacation. They are all sitting in rows 9 or 10 on the same plane, but they are not sitting together.

Use the clues and the seat map below to determine where each person is sitting.

1. Kevin is sitting right in front of Addie.
2. McKell is sitting in the same row as Kevin.
3. There is one person sitting between McKell and Evan.
4. Addie is in a middle seat.
5. McKell is not sitting by Kevin.
6. Addie is not in seat 10E.
7. Evan is seated by a window.

Show your work and your answer here:

	A	B	C	D	E	F
Row 9						
Row 10						

Addie is sitting in seat _____.
 Evan is sitting in seat _____.
 McKell is sitting in seat _____.
 Kevin is sitting in seat _____.

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Name _____



TRIP Brainteaser

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

		P	
P		I	
I		R	

Name _____



Passport Order #1

There are five stamps in a row in Amanda's passport. Use the clues below to determine the order of the stamps in Amanda's passport.

1. There are two stamps between the India and Italy stamps.
2. There are two stamps between the Germany and Netherlands stamps.
3. There are three stamps between the Italy and Netherlands stamps.
4. The Australia stamp is to the left of the Germany stamp.



Name _____



TRAVEL Brainteaser

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

V					T
		A			
E			V	T	
	L			E	
R		T	L		

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Name _____



See the Sights Sentences #1

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

1. $3 + 3 = 15 - 6$	2. $4 + 8 = \text{camera} - 3$	3. $2 + 9 = 5 + \text{clock}$
4. $7 + \text{map} = 19 - 5$	5. $10 - \text{binoculars} = 2 + 4$	6. $\text{map} + 7 = 10 + 4$
7. $10 + 8 = \text{binoculars} + 11$	8. $\text{map} - 9 = 12 - 3$	9. $15 + 5 = \text{map} + 10$
10. $16 - \text{binoculars} = 4 + 3$	11. $2 + 12 = \text{camera} - 6$	12. $\text{map} = 17 - 8$
13. $\text{map} + 8 = 20 - 4$	14. $15 - \text{map} = 1 + 5$	15. $20 - 3 = 8 + \text{clock}$
16. $7 - 5 = \text{map} + 6$	17. $9 + 7 = 5 + \text{binoculars}$	18. $\text{map} + 8 = 4 + 16$

Name _____



GUIDES Brainteaser

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

G		E		U
			I	
	S	I		
			S	
E			G	

Name _____



See the Sights Sentences #2

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

1. $5 + 22 = 50 - 18$	2. $30 - 11 = \text{camera} - 21$	3. $9 + 25 = 30 + \text{clock}$
4. $44 - \text{map} = 50 - 25$	5. $29 + \text{binoculars} = 81 - 13$	6. $\text{map} + 17 = 89 - 30$
7. $61 + 8 = \text{binoculars} - 11$	8. $\text{map} - 6 = 5 + 34$	9. $93 - 20 = \text{map} + 35$
10. $24 + \text{binoculars} = 90 - 16$	11. $42 + 24 = \text{clock} + 30$	12. $93 - \text{map} = 30 - 9$
13. $\text{map} - 26 = 26 + 10$	14. $29 + \text{map} = 38 + 61$	15. $27 - 5 = 90 - \text{clock}$
16. $41 + 19 = \text{map} + 27$	17. $73 - 47 = 90 - \text{binoculars}$	18. $\text{map} + 65 = 8 + 89$

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Name _____



LANDMARKS Brainteaser

Arrange the letters in LANDMARKS so there is one of every letter and symbol in the words in every row, column, and 3x3 box. Since there are two As in LANDMARKS, the second A has been given to you in every box.

S						A
	A				N	
			A	M	R	D
A		D	S			
			K	A		N
	D	A	L	M	A	
A	N			S		K
K		A	D			
		K		A		M

Name _____



Passport Order #2

There are five stamps in a row in Ben's passport. Use the clues below to determine the order of the stamps in Ben's passport.

1. There are two stamps to the right of the Thailand stamp.
2. The Ireland stamp is to the left of the Japan stamp.
3. There is one stamp between the Japan and Thailand stamps.
4. There are two stamps between the China and Canada stamps.
5. The Canada stamp is NOT next to the Ireland stamp.
6. There are two stamps between the Japan and Ireland stamps.

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

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Name _____



CRUISE Brainteaser

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

				U
	I			R
C				
U			S	
S				R
	E			

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Name _____



Math Challenge Passport Stamp

When you travel to another country, you receive a passport stamp. Leah, Derek, and Dwayne have 30 passport stamps each. Use the clues below to determine how many stamps each person has.

Clue #1: Derek has twice the number of stamps as Leah.
Clue #2: Dwayne has three times the number of stamps as Leah.

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



Math Challenge Passport Stamps Answer Key

When you travel to another country, you receive a stamp in your passport. Leah, Derek, and Dwayne have 30 passport stamps altogether. Use the clues below to determine how many stamps each person has in his or her passport.

Leah has 5 stamps in her passport.
Derek has 10 stamps in his passport.
Dwayne has 15 stamps in his passport.

The most efficient way to solve this problem is to use clue #1 to determine that 7 Sam and Leah's Finding Times totaled 30 seconds, then Sam and Madison's Finding Times also totaled 30 seconds (for a total combined time of 1 minute or 60 seconds). Then students can use a guess and check strategy to look for combinations of 30 that fit with clues #2 and #3. Note: 30 (6 is 2 more than 4, so it is Sam's time). Once students find Sam's time they will also know Leah's (4 seconds), 8+4=12 (8 is 2 more than 6, so it is Sam's time). Once students find John's time they will also know Madison's (2 seconds).



Math Challenge Beach Reads Answer Key

Claire spends most of her day reading on the beach during her vacation. Use the clues below to determine how many pages Claire has read.

Clare has read 38 pages.

Student's keep track of their work in a chart similar to the one below. Since there must be a difference of 7 between the digits in the ones and tens places, the only digits that can be in the ones place are 1, 8, and 5. The numbers in the hundreds place for each of the possibilities shown below. The only number whose digits have a sum of 12 is 38.

Hundreds	Tens	Ones	Sum of digits = 12
4	2	6	
3	1	8	Correct answer



Math Challenge Shopping List Answer Key

Lynn went on a 3 day trip to Boston, Massachusetts. During her vacation, she took a ton of pictures. Use the clues below to determine how many pictures Lynn took during her trip.

Lynn took 375 pictures during her trip.

Day 1 = 60 pictures (given in clue #3)
Day 2 = 60 + 65 = 125 pictures (clue #2)
Day 3 = 60 + 65 = 125 pictures (clue #2)
20 + 65 + 60 = 375 total pictures



Math Challenge Packing Plan Answer Key

Autumn is packing for a trip. She packs two types of shirts: short sleeve and long sleeve. She packs three types of pants: jeans, capris, and shorts. She packs three kinds of shoes: hiking boots, running shoes, sandals. If she wears one shirt, one pant, and one type of shoe every day, how many possible outfit combinations does Autumn have?

Start	Pant	Shoe
1 Short sleeve	Jeans	Hiking boots
2 Short sleeve	Jeans	Running Shoes
3 Short sleeve	Jeans	Sandals
4 Long sleeve	Jeans	Hiking boots
5 Long sleeve	Jeans	Running Shoes
6 Long sleeve	Jeans	Sandals
7 Short sleeve	Capris	Hiking boots
8 Short sleeve	Capris	Running Shoes
9 Short sleeve	Capris	Sandals
10 Long sleeve	Capris	Hiking boots
11 Long sleeve	Capris	Running Shoes
12 Long sleeve	Capris	Sandals
13 Short sleeve	Shorts	Hiking boots



Math Challenge Swim, Sand, and Sunscreen Answer Key

Calvin is swimming at the beach. Cabo San Lucas, Mexico. He goes outside at 4:45 am and comes back to his room at 4:00 pm. If Calvin's mom makes him put on sunscreen every 30 minutes he has to use outside, starting right at 4:45 am, how many times will he put on sunscreen?

Calvin will put on sunscreen 11 times.

Students can create a chart like the one below to show their work for this problem.

#	Time
1	4:45
2	4:45
3	5:15
4	5:45
5	6:15
6	6:45
7	7:15
8	7:45
9	8:15
10	8:45
11	9:15
12	9:45
13	10:15
14	10:45



Math Challenge Travel Size Me Answer Key

Chris is buying travel-sized items for his upcoming vacation. He buys shampoo, toothpaste, and mouthwash. Shampoo costs \$2.50, toothpaste costs \$2.00, and mouthwash costs \$1.00. Chris buys the travel-sized items and pays with a \$5.00 bill. He receives \$2.50 back in change. How many of each type of travel-sized item did Chris buy?

Chris bought 2 shampoos, 1 toothpaste, and 1 mouthwash.

shampoo	toothpaste	mouthwash	Total cost
\$2.50	\$2.00	\$1.00	\$5.50
1	2	2	\$6.50
1	3	1	\$6.00
2	1	1	\$4.50
2	2	1	\$5.50
3	1	1	\$5.50



Math Challenge Split Up Sightseeing Answer Key

On the final day of their class trip to Washington DC, Mr. Danks lets his students choose what they would like to see. Two-thirds of his students will visit the Washington Monument. One-fourth will go to the Museum of Natural History, and one-twelfth will go to the White House. If 6 students will go to the Museum of Natural History, how many students will be at the Washington Monument?

16 students will be at the Washington Monument.

6 students = 1/4 of the class
6+24 students in the class altogether
Two-thirds of 24 = 16 students



Math Challenge The Eiffel Tower Answer Key

The Eiffel Tower in Paris, France is one of the most famous structures in the world. Did you know it has been painted a number of different colors? It was first painted in 1889 before it was painted brownish-red when it was finished three years later. It was then painted ochre brown three years after that. In 1911 it was painted five shades of yellow. Then it was painted a yellow-brown in 1927, 1954, 1961, 1969, and 1991. In 1991 and 1992 it was painted brownish-red. Seven years later it was painted the color you see today, "Eiffel Tower Brown", and has been repainted every 7 years since then. Including the 1889 painting, how many times has the Eiffel Tower been painted between 1889 and 2007?

Year	Color
1889	Brownish-red
1911	Ochre brown
1927	Yellow-brown
1954	Yellow-brown
1961	Yellow-brown
1969	Yellow-brown
1991	Brownish-red
1992	Brownish-red
1999	Eiffel Tower Brown
2007	Eiffel Tower Brown



Math Challenge The Taj Mahal Answer Key

The Taj Mahal in Agra, India is one of the seven wonders of the world. It is a beautiful mausoleum made of white marble. The Taj Mahal was built for Mumtaz Mahal, the wife of Emperor Shah Jahan. It took many years to build. Construction started in 1631 and continued until the Taj Mahal, including the surrounding buildings and gardens, were finished in 1653. How many years did it take to complete the Taj Mahal? Count 16 months for every year and 1653 as one whole year.

It took 264 months to finish the Taj Mahal.

1653-1631 = 22 years
22 years x 12 months per year = 264 months

Students will need to be able to subtract or use a missing addend to find that it took 22 years for the Taj Mahal to be built. Students will not need to be able to multiply to solve this problem, nor should parents try to teach this to their child. If they bring the homework, students should use a number sense skill to find an efficient way to group numbers to multiply. They may reach for the calculator.

Two efficient ways to group numbers to multiply are shown below.

Students will need to be able to subtract or use a missing addend to find that it took 22 years for the Taj Mahal to be built. Students will not need to be able to multiply to solve this problem, nor should parents try to teach this to their child. If they bring the homework, students should use a number sense skill to find an efficient way to group numbers to multiply. They may reach for the calculator.

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Seat Assignments Brain teaser Answer Key

Addie, Evan, Kevin, and Matt are going on vacation. They are all sitting in rows 4 or 10 on the same plane, but they are not sitting together.

Use the clues and the seat map below to determine where each person is sitting.

	A	B	C	D	E	F
Row 4		K		M	E	
Row 10		A				

1. Kevin is sitting right in front of Addie.
2. Matt is sitting in the same row as Kevin.
3. There is one person sitting between Matt and Evan.
4. Addie is in a middle seat.
5. Matt is not sitting by Kevin.
6. Addie is not in seat 10C.
7. Evan is seated by a window.

Show your work and your answer here:

	Netherlands	India	Australia	Germany	Italy
1					
2					
3					
4					

There are five stamps in a row in Amanda's passport. Use the clues below to determine the order of the stamps in Amanda's passport.

1. There are two stamps between the India and Italy stamps.
2. There are two stamps between the Germany and Netherlands stamps.
3. There are three stamps between the Italy and Netherlands stamps.
4. The Australia stamp is to the left of the Germany stamp.

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

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ROAD Brain teaser Answer Key

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

R	D	O	A
A	O	D	R



TRIP Brain teaser Answer Key

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

T	I	P	R
P	R	I	T



TRAVEL Brain teaser Answer Key

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

V	A	E	R	L	T
L	T	R	A	V	E
T	V	A	E	R	L



GUIDES Brain teaser Answer Key

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

G	I	E	D	S	U
S	U	D	E	I	G
U	E	G	I	D	S



CRUISE Brain teaser Answer Key

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

R	C	S	E	U	I
E	I	U	C	S	R
C	S	I	R	E	U

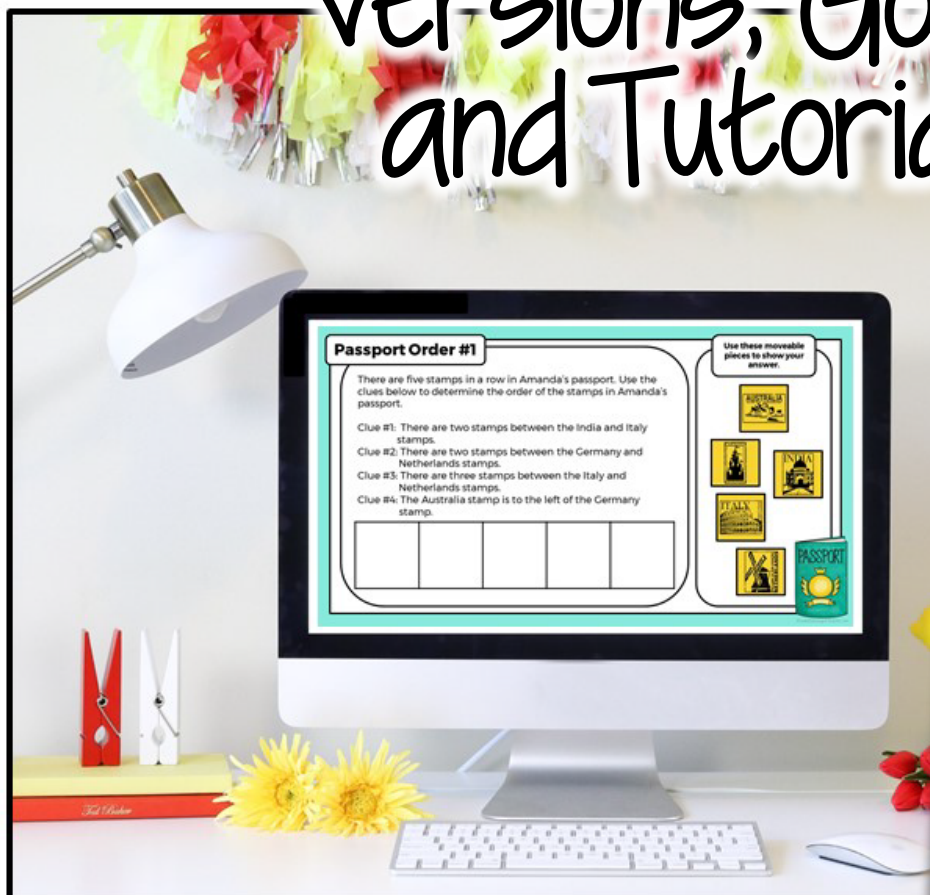


LANDMARKS Brain teaser Answer Key

Arrange the letters in LANDMARKS so there is only one of every letter and symbol in the words in every row, column, and 3x3 box. Since there are two As in LANDMARKS, the second A has been given to you in every box.

S	N	D	R	A	K	L	M	A
M	R	A	S	L	D	K	N	A
A	K	L	N	A	M	R	S	D
A	L	M	D	S	N	A	K	R
R	S	A	M	K	A	D	L	N
N	D	K	A	R	S	L	M	A
D	A	N	L	M	R	S	A	K
K	M	S	A	D	A	N	R	L
L	A	R	K	N	S	A	D	M

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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