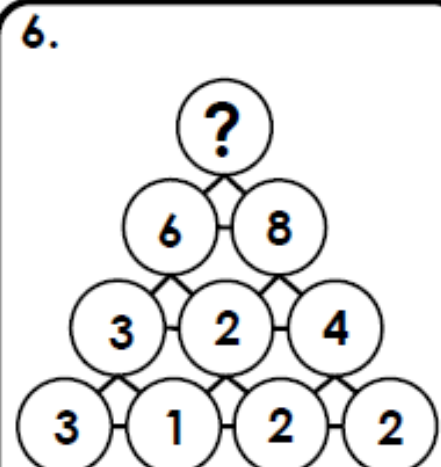
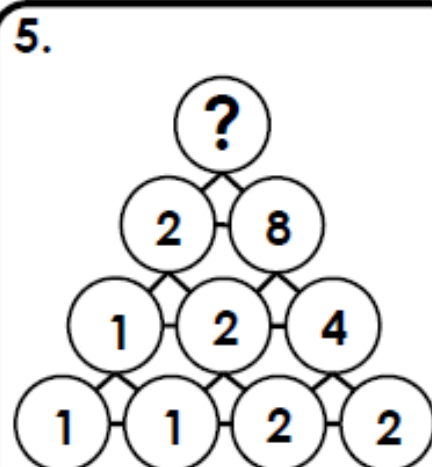
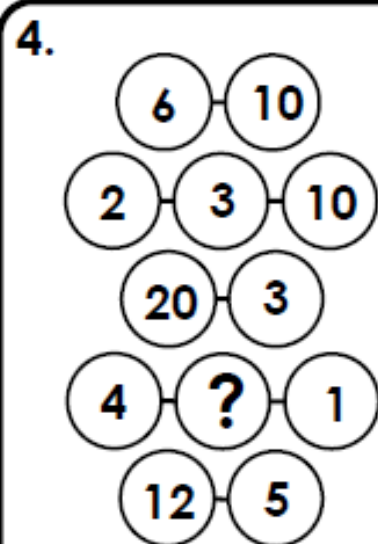
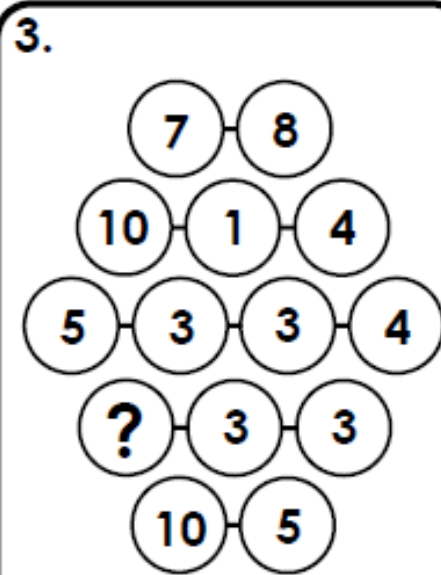
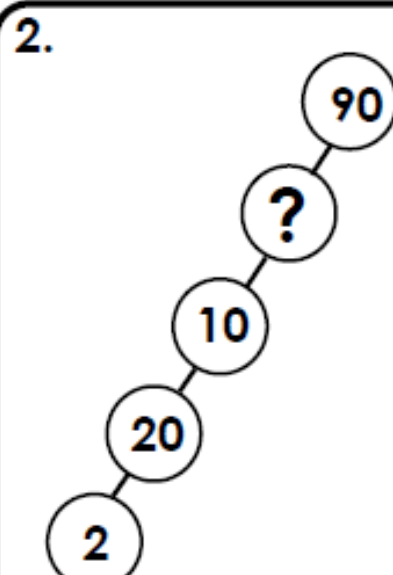
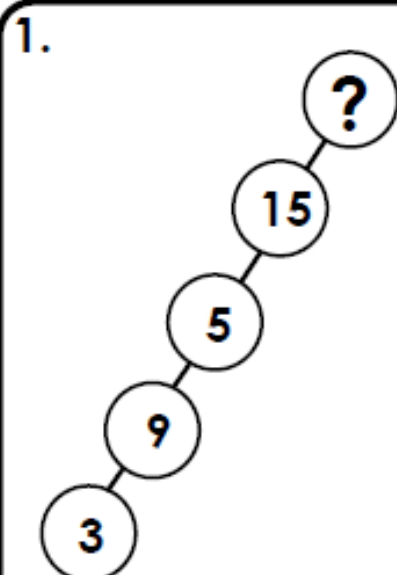
A decorative border of colorful stars surrounds the central text. The stars are arranged in a rectangular frame, with each star having a unique color and a dashed outline. The colors include red, orange, yellow, green, blue, and purple, with some stars having a white center.

Brain Teasers & Logic Activities

Provided by:
Mrs. Aldrich

Lucky's LOCKBOX

Lucky the Leprechaun is tired of people stealing his treasure, so he stashed his pot of gold in a special lockbox. Unfortunately, he left behind some coins that provide clues to the secret combination. Figure out the pattern or the relationship between the connected coins. Solve for the value of the "?" coin to find out the combination to Lucky's Lockbox.



Lucky's LOCKBOX COMBINATION:

#1

#2

#3

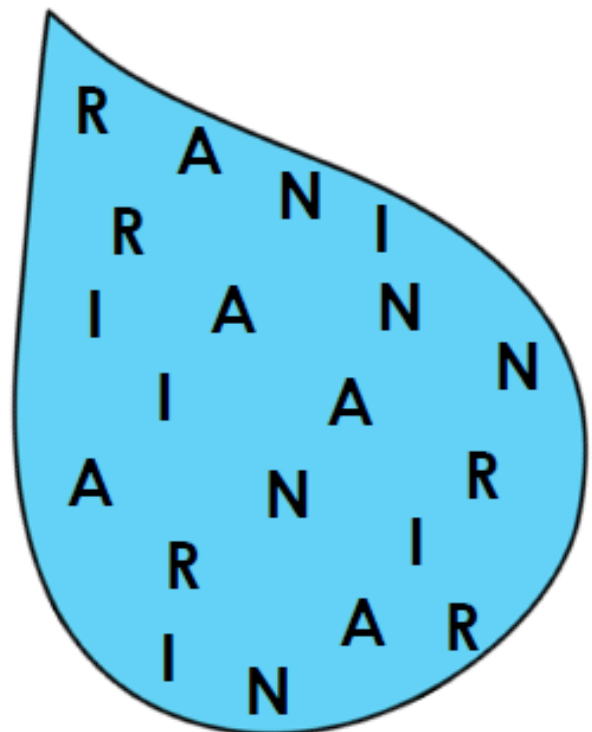
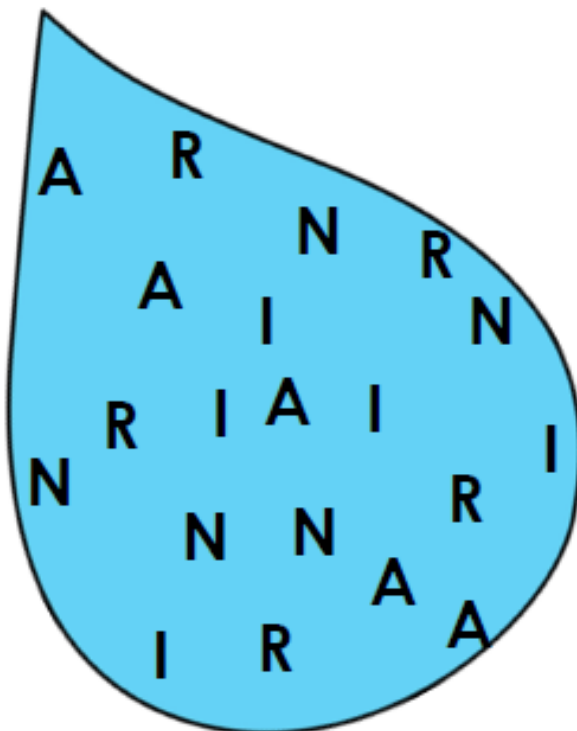
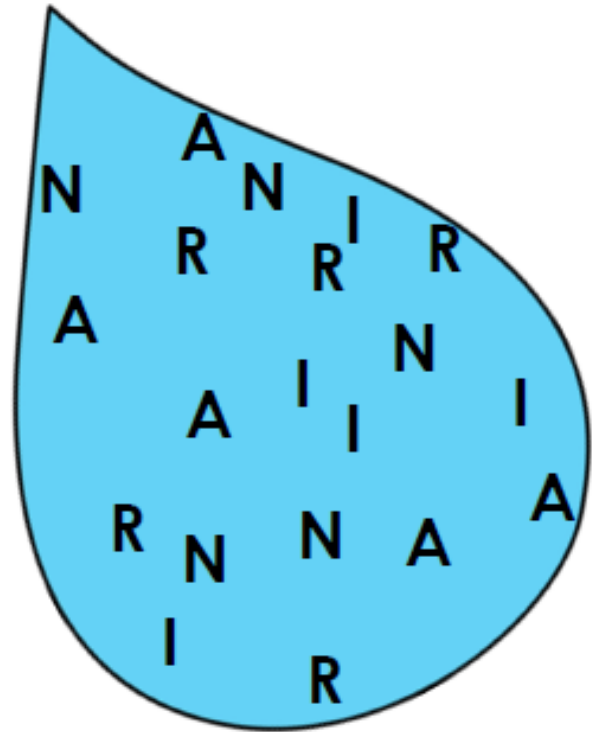
#4

#5

#6

Rainy Round-Up

Without lifting your pencil from the paper, draw **straight lines** to divide the raindrop into five parts, each containing the letters R, A, I, and N. (Hint: The lines can cross each other.)



Batting Order BLUNDER

Oh no! Coach Wallace is home with the flu, and no one knows your baseball team's batting order for today's game. Luckily, you've found some clues in a note left behind by Coach Wallace. Use the clues to determine the correct batting order.

PLAYERS	HITS	POSITION
Tanya	157	Pitcher
Jordan	191	Catcher
Roberto	257	outfielders
Sebastian	157	
Carson	96	
Anaya	238	infielders
Brock	205	
Connor	105	
Monique	216	

BATTING ORDER
1.
2.
3.
4.
5.
6.
7.
8.
9.

Clues

- 1.) The first batter has more than 200 hits.
- 2.) The first batter has 100 more hits than the sixth batter.
- 3.) The ninth batter has 100 more hits than the eighth batter.
- 4.) The first batter is not an infielder.
- 5.) Tanya bats immediately after a teammate with the same number of hits.
- 6.) The sixth batter is not a pitcher.
- 7.) The difference in hits between the fourth batter and the first batter is less than 20.
- 8.) The second batter is neither an infielder nor an outfielder.
- 9.) The third batter's number of hits is a multiple of 12.
- 10.) The fifth batter is not an infielder.

Forecast Flub

Your local meteorologist, Storm Thunderbolt, has a big problem. He mixed up all the information from the weekly forecast. Use the clues to help Storm give the weekly forecast on the local news.

<u>Temperatures</u>	<u>Wind Speeds</u>	<u>Chance of Precipitation</u>	<u>Conditions</u>
67°	5 mph	65%	Sunny
73°	35 mph	100%	Partly Cloudy
49°	16 mph	15%	Rainy
59°	10 mph	10%	Thunderstorms
86°	19 mph	0%	Foggy

	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature					
Wind					
Precipitation					
Conditions					

Clues

- 1.) The day with the highest temperature also has thunderstorms.
- 2.) The temperature will be 67° on Friday.
- 3.) The temperature on Wednesday is higher than the temperature on Friday.
- 4.) The temperature on Tuesday is higher than the temperature on Wednesday.
- 5.) The wind speed is the slowest on the day when the conditions are foggy.
- 6.) The day with the fastest wind speed also has thunderstorms.
- 7.) Tuesday and Thursday are the only days with a chance of precipitation that is higher than 50%.
- 8.) The day with the slowest wind speed also has the lowest temperature.
- 9.) The day with a temperature of 59° has rainy conditions and a 100% chance of precipitation.
- 10.) The day with sunny conditions has the lowest chance of precipitation.
- 11.) The conditions on Friday are partly cloudy.
- 12.) Thursday has a faster wind speed than Wednesday, and Wednesday has a faster wind speed than Friday.
- 13.) There is a higher chance of precipitation when the conditions are foggy compared to when the conditions are partly cloudy.

It's Madness

You're the sports reporter at ESN, a sports news station. You have the final scores from the college basketball games and the stats from the players. Unfortunately, the team rosters are incomplete. Use the stats provided to put the players on their correct team rosters.
(Hint: Each team has a Point Guard, a Shooting Guard, a Small Forward, a Power Forward, and a Center.)

final score

TH	Tar Heels	47
JH	Jayhawks	32

final score

BD	Blue Devils	94
S	Spartans	109

Point Guards	Shooting Guards	Small Forwards	Power Forwards	Centers
Larry Pratt 20 points	Jimmy Lang 11 points	Calvin Rollins 24 points	Ted Pinion 10 points	Jared Johnson 20 points
Chris Winslow 2 points	Allen Grayson 30 points	Miles Briggs 42 points	Jerry Simon 2 points	Wesley Carter 14 points
Joe Bennett 2 points	Jake Fahdi 0 points	Carl Jones 4 points	Melvin Bradley 26 points	Max Lucas 17 points
Zack Cohen 4 points	Kevin Williams 14 points	Javier DeLuca 4 points	Rich Warren 34 points	Dan Grabowski 2 points

Rosters

	Tar Heels	Jayhawks	Blue Devils	Spartans
Point Guard	Joe Bennett			Chris Winslow
Shooting Guard				
Small Forward		Calvin Rollins	Javier DeLuca	
Power Forward				
Center	Max Lucas			

Springtime Signs

Solve each problem by finding the value of the Springtime symbol in each problem.

Level 1

If:

$$\begin{aligned} \text{bee} + \text{bee} + \text{bee} &= 6 \\ \text{cloud} + \text{cloud} + \text{cloud} &= 12 \end{aligned}$$

then:

$$\text{bee} + \text{cloud} = \square$$

If:

$$\begin{aligned} \text{snail} + \text{snail} &= 20 \\ \text{house} + \text{house} + \text{house} &= 9 \\ \text{butterfly} + \text{butterfly} + \text{butterfly} &= 27 \end{aligned}$$

then:

$$\text{snail} + \text{house} + \text{butterfly} = \square$$

If:

$$\begin{aligned} \text{cloud} + \text{cloud} + \text{cloud} &= 60 \\ \text{flower} + \text{flower} + \text{flower} &= 120 \\ \text{frog} + \text{frog} + \text{frog} &= 93 \end{aligned}$$

then:

$$\text{cloud} + \text{flower} - \text{frog} = \square$$

Level 2

If:

$$\begin{aligned} \text{flower} \times \text{flower} &= 4 \\ \text{pot} \times \text{pot} &= 9 \end{aligned}$$

then:

$$\text{flower} + \text{pot} = \square$$

If:

$$\begin{aligned} \text{grass} \times \text{grass} &= 81 \\ \text{瓢虫} \times \text{瓢虫} &= 16 \\ \text{leaf} \times \text{leaf} &= 144 \end{aligned}$$

then:

$$\text{grass} + \text{瓢虫} + \text{leaf} = \square$$

If:

$$\begin{aligned} \text{flower} \times \text{flower} &= 36 \\ \text{grass} \times \text{grass} &= 49 \\ \text{leaf} \times \text{leaf} \times \text{leaf} &= 27 \end{aligned}$$

then:

$$\text{flower} \times \text{grass} + \text{leaf} = \square$$

Level 3

If:

$$\begin{aligned} \text{leaf} + \text{leaf} + \text{leaf} &= 48 \\ \text{leaf} + \text{mushroom} &= 26 \end{aligned}$$

then:

$$\text{leaf} + \text{leaf} + \text{mushroom} = \square$$

If:

$$\begin{aligned} \text{flower} + \text{flower} + \text{flower} &= 51 \\ \text{flower} + \text{rainbow} &= 29 \\ \text{rainbow} - \text{snail} &= 4 \end{aligned}$$

then:

$$\text{flower} + \text{rainbow} + \text{snail} = \square$$

If:

$$\begin{aligned} \text{mushroom} + \text{mushroom} + \text{mushroom} &= 15 \\ \text{mushroom} + \text{sun} + \text{sun} &= 77 \\ \text{sun} - \text{teapot} &= 20 \end{aligned}$$

then:

$$\text{sun} + \text{teapot} - \text{mushroom} = \square$$

Level 4

If:

$$\begin{aligned} \text{boot} + \text{boot} + \text{boot} &= 36 \\ \text{boot} \times \text{snake} &= 84 \\ \text{snake} - \text{umbrella} &= 2 \end{aligned}$$

then:

$$\text{boot} + \text{snake} + \text{umbrella} = \square$$

If:

$$\begin{aligned} \text{boot} \times \text{boot} &= 144 \\ \text{boot} + \text{leaf} &= 16 \\ \text{boot} - \text{leaf} - \text{seed} &= 6 \end{aligned}$$

then:

$$\text{leaf} \times \text{seed} + \text{boot} = \square$$

If:

$$\begin{aligned} \text{seed} \times \text{seed} \times \text{seed} &= 125 \\ \text{seed} + \text{seed} - \text{bird} &= 4 \\ \text{drop} + \text{drop} - \text{seed} - \text{bird} &= 13 \end{aligned}$$

then:

$$\text{seed} + \text{bird} + \text{bird} - \text{drop} = \square$$

Bracket Busters

Use the clues below to fill out the tournament bracket and figure out the champion. (Hint: the winner goes on the line in the next round.)

Round 1

Round 2

Cavaliers

Hornets

Bruins

Wildcats

Eagles

Buckeyes

Blue Devils

Rebels

Semi-Final

Final

Champion

Round 1

Round 2

Semi-Final

Spartans

Tigers

Bulldogs

Musketees

Cardinals

Mountaineers

Bearcats

Jayhawks



Clues

- 1.) The Mountaineers never play the Bearcats.
- 2.) The Jayhawks never play the Cardinals and lose in the Semi-Finals.
- 3.) The Musketees don't win a game.
- 4.) The Cavaliers don't play the Bruins.
- 5.) The Cavaliers beat the Blue Devils and Spartans.
- 6.) The Blue Devils never play the Eagles.

The Garden Mystery

You are helping Mr. Green place 15 vegetable plants in his two gardens. However, the location of the plants is a complete mystery. He placed some numbers by his gardens to help you find out where to put each plant. Cut out the plants below and paste them into the garden so that the product of each row equals the number to its right and the product of each column equals the number below it.




The Little Garden

 1	 13	= 13
		= 0
		= 28
= 154	= 0	

The Big Garden

			= 108
			= 560
			= 360
= 384	= 150	= 378	

Cabbage

 9
 4
 12

Tomatoes

 0
 3
 7



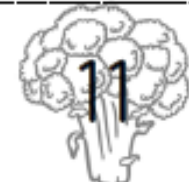
Pumpkins

 1
 14
 10

Carrots

 6
 5
 8

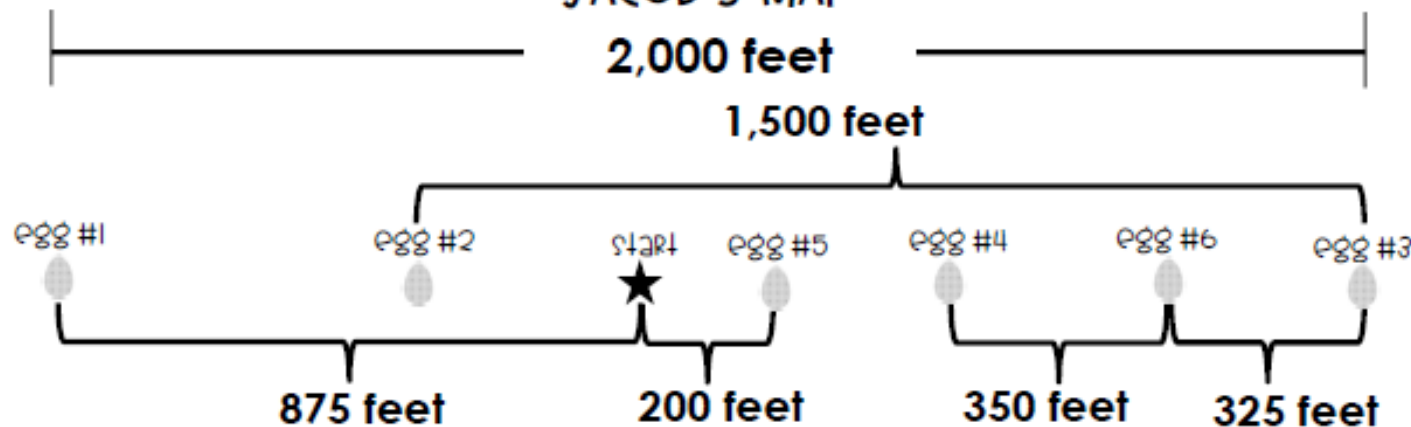
Broccoli

 13
 2
 11

The Egg Hunters

Jacob and Malika are attending an egg hunt. They each start at the star and must walk to collect each numbered egg in order from #1 to #6. Use the maps to find the missing distances, and determine how far each of them must walk.

JACOB'S MAP



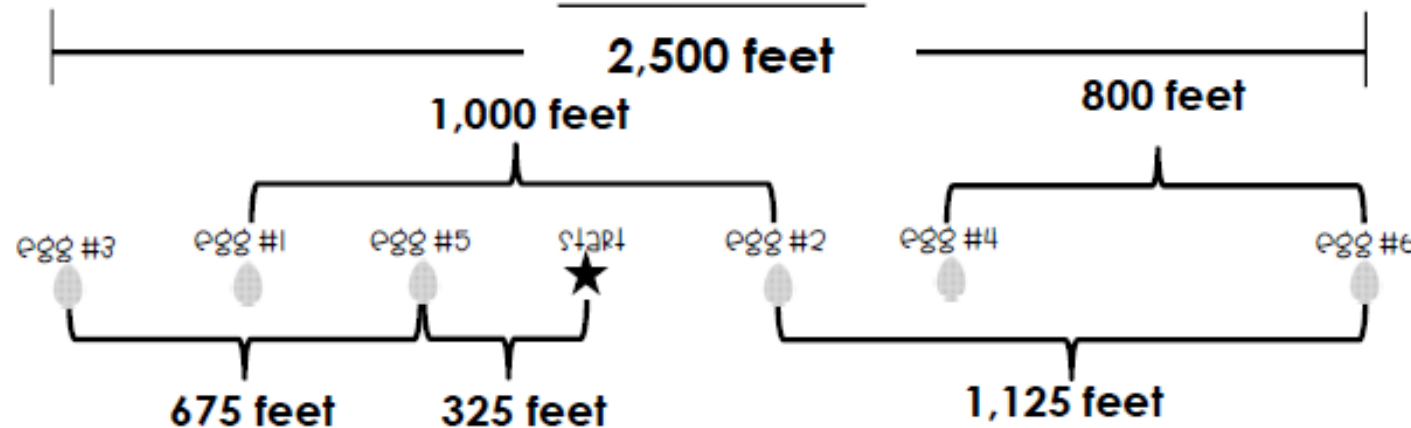
How far does Jacob walk?

Trip	Distance
start → #1	
#1 → #2	
#2 → #3	

Trip	Distance
#3 → #4	
#4 → #5	
#5 → #6	

How far must Jacob walk in total?

MALIKA'S MAP



How far does Malika walk?

Trip	Distance
start → #1	
#1 → #2	
#2 → #3	

Trip	Distance
#3 → #4	
#4 → #5	
#5 → #6	

How far must Malika walk in total?

ZOO Snafu

This year, the students at Hunter Elementary are taking a field trip to the zoo. Each student will be in a group of four, and each group starts their visit at a different attraction. However, when they arrive at the zoo, no one knows which group they are supposed to stay with. Use the clues below to put the students into their correct groups.

3rd Graders

Jessica
Miles
Jameson
Gabrielle

4th Graders

Kerri
Taylor
Alexis
Elijah

5th Graders

Dane
Justin
Jasmine
Alexandra

6th Graders

William
Candace
Darryl
Wesley

Clues

- 1.) In one group, everyone has a name that begins with the same letter.
- 2.) Justin's group is going to Cat Kingdom.
- 3.) No 6th graders are in the group going to Reptile Republic.
- 4.) Neither William nor Candace are in the group going to Penguin Precinct.
- 5.) Darryl and Wesley are the only 6th graders in their group.
- 6.) No 3rd graders are going to Reptile Republic or Penguin Precinct.
- 7.) Kerri and Elijah aren't going to Penguin Precinct.
- 8.) Dane is in the same group as Kerri.
- 9.) Taylor and Alexis are in a group with no 5th graders.

	Students
PRIMATE PALACE	
CAT KINGDOM	
REPTILE REPUBLIC	
PENGUIN PRECINCT	

Grad Day DJ

Oh no! The DJ called in sick for graduation day, and you have to help out. He sent you the songs, but you don't have any idea when to play them. Use the clues to fill out the chart, and play each song at the correct time.

SONGS

Good Riddance

Firework

Friends Forever

I Gotta Feeling

My Wish

Happy

I Will Remember You

Don't Stop Believing

See You Again

Pomp & Circumstance

Ceremony

PLAY TIME

SONG

3:35 – 3:49 PM

3:49 – 4:00 PM

4:00 – 4:12 PM

4:23 – 4:41 PM

4:55 – 5:00 PM

Reception

5:05 – 5:10 PM

5:10 – 5:14 PM

5:14 – 5:18 PM

5:18 – 5:21 PM

5:21 – 5:30 PM

Clues

- 1.) Pomp & Circumstance is the longest song.
- 2.) See You Again is not the first song played.
- 3.) I Gotta Feeling and Happy are the same length.
- 4.) Good Riddance is less than ten minutes long.
- 5.) Don't Stop Believing and Firework are the same length.
- 6.) My Wish immediately follows the second longest song.
- 7.) Friends Forever is the longest song at the reception.
- 8.) Happy and I Will Remember You both play at the ceremony.
- 9.) Firework does not immediately follow after I Gotta Feeling.

Field Day Fiasco

It's field day today, and your teacher forgot to assign the students to their first game. Use the clues below to help the students start at the correct game.

3rd Graders

Aaron
Beckett
Norah
Londyn

4th Graders

Sophia
Tobias
Omar
Lucia

5th Graders

Minka
Nina
Ali
Selena

6th Graders

Weston
Deion
Nathan
Jordan

Clues

- 1.) All students whose first name begins with "N" start at the same game.
- 2.) No 5th graders start at the relay race or kickball.
- 3.) Weston and Deion start at the same game.
- 4.) No 6th graders start at balloon toss.
- 5.) Aaron and Selena don't start at balloon toss.
- 6.) Londyn and Omar start at a game with at least one 5th grader.
- 7.) Only one 6th grader starts at kickball.
- 8.) Three 4th graders start at a game together.

Students	
BALLOON TOSS	
RELAY RACE	
KICKBALL	
TUG-OF-WAR	

Goodbye Party

Four students agreed to bring in different items for the class party, but they lost their list. Use the clues to fill out the table below to help the students bring everything for the class party.

Decorations

balloons
streamers
party hats
party horns

Food

pizza
salad
chips
cake

Drinks

soda
juice boxes
bottled water
lemonade

Supplies

forks
cups
napkins
plates

Clues

- 1.) Each student is bringing one decoration, one food item, one drink, and one supply to the party.
- 2.) Amelia is bringing chips but not party hats or streamers.
- 3.) Andre isn't bringing pizza or juice boxes.
- 4.) The student bringing bottled water is also bringing napkins and chips.
- 5.) Justin is bringing the cake and the plates.
- 6.) The student bringing pizza isn't bringing streamers or balloons.
- 7.) The student bringing salad is also bringing lemonade and forks.
- 8.) The student bringing party hats isn't bringing cake, chips, or pizza.
- 9.) The student bringing party horns isn't bringing juice boxes.
- 10.) Sahar didn't bring juice boxes.








	Justin	Amelia	Andre	Sahar
Decorations				
Food				
Drinks				
Supplies				

Class Awards

Mrs. Flub picked the top student in each subject to receive an award. However, she is home with the flu. Use the clues to help the substitute teacher pass out the awards to each student in the class. The grid will help you eliminate possibilities. Put an "X" in the box if a student didn't receive the award, or an "O" if the student received the award.

Clues

- 1.) Salma is either the Writing Wizard or the Vocab Viking.
- 2.) Amari isn't the History Buff or the Math Master.
- 3.) Leo is the Vocab Viking.
- 4.) Pax is either the Science Sensation or the STEM Superstar.
- 5.) Jen is either the Writing Wizard or the History Buff.
- 6.) Andre is either the History Buff or the Math Master.
- 7.) James is the STEM Superstar.

	Pax 	Andre 	Salma 	Amari 	Leo 	Jen 	James 
Math Master							
Stellar Speller							
Vocab Viking							
Writing Wizard							
History Buff							
Science Sensation							
STEM Superstar							

Summer Words Challenge

Fill in the squares so that each row, column, and bold section contains the letters of the word above each puzzle.

J-U-N-E

E		N	
U			E
	E		J
	U		N

R-E-L-A-X

R		L	A	
		E		L
L			E	A
		R		E
	L	A		R

T-R-A-V-E-L

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

C-A-M-P-I-N-G

C		M		I		G
I	P		N		M	
		A	G	P		I
	C	I			P	
P	N		I		A	
A		P	M		I	C
		N		A		P

Yearbook Messages

This year, you sent your yearbook around the classroom and got it back with a lot of great messages. However, you have no idea who wrote each message. Use the clues to determine who wrote each message.

Messages

Stay cool
We made it
Miss you already
Keep in touch
Text me
Let's hang
You're the best
Have a great summer
Catch you later
See you next year
Thanks for being you
Call me

	Classmate	Yearbook Message
Table 1	Hannah	
	Alex	
	Sam	
	Nasir	
Table 2	Jackson	
	Mira	
	Thomas	
	Rosie	
Table 3	David	
	Maggie	
	Edward	
	Jayden	

Clues

- 1.) No one at table 2 wrote *Catch you later* or *Keep in touch*.
- 2.) No one at table 1 or table 3 wrote *Call me* or *Let's hang*.
- 3.) No one at table 2 or table 3 wrote *You're the best* or *Text me*.
- 4.) Rosie wrote *See you next year*.
- 5.) Hannah wrote *We made it*.
- 6.) Alex didn't write *Text me*.
- 7.) Jayden wrote *Stay cool*.
- 8.) Neither Edward nor Maggie wrote *Keep in touch*.
- 9.) No one at table 3 wrote *Miss you already*.
- 10.) Maggie didn't write *Catch you later*.
- 11.) Sam wrote *Have a great summer*.
- 12.) Neither Mira nor Jackson wrote *Let's hang*.
- 13.) Mira didn't write *Call me*.

Class Party Coupons

Each student is using a coupon to purchase items for the class party. However, the students lost the list assigning the items. First, calculate the money saved. Then, use the clues to complete the chart to determine who is bringing which items to the party.

Students

Wesley

Angela

Sterling

Danai

Andy

Chadwick

Leticia

Michael

Item	Cost/Item	# Needed	Coupons - 1 Per Customer	\$ Saved	Total Spent	Student
pizza	\$8.00	2	\$5 off one pizza			
chips	\$3.50	4	buy three, get one free			
plates	\$2.00	8	50% off all plates			
cups	\$0.20	40	25% off all cups			
soda	\$1.50	6	two free sodas			
water	\$1.00	8	one free water			
napkins	\$0.25	20	20% off all napkins			
utensils	\$5.00	2	\$1.50 off utensils			

Clues

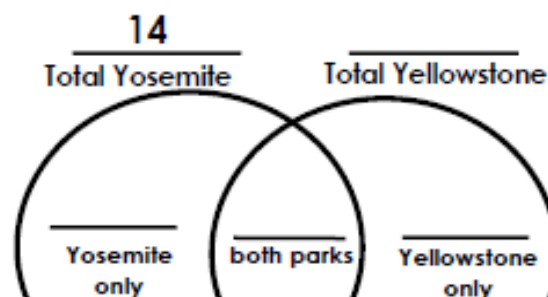
- 1.) Chadwick's items cost more than \$10.00.
- 2.) Wesley's coupon saves him the most money compared to his classmates.
- 3.) Andy saves less than \$2.00.
- 4.) Danai and Michael save the same amount with their coupons, but Danai spends more.
- 5.) Sterling and Leticia spend the same amount on their items after using their coupons, but Sterling's coupon saves him more money.
- 6.) Angela spends the most on her items for the class party.

US Summer Trips

You have polled 48 of your school friends and are creating diagrams to show how they plan to spend their summer. Read the clues below to fill in the blanks in each diagram.

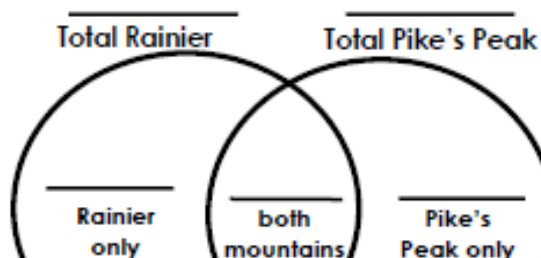
National Park Trips

- 1.) 21 classmates will visit national parks this summer.
- 2.) 6 will visit both Yosemite and Yellowstone.



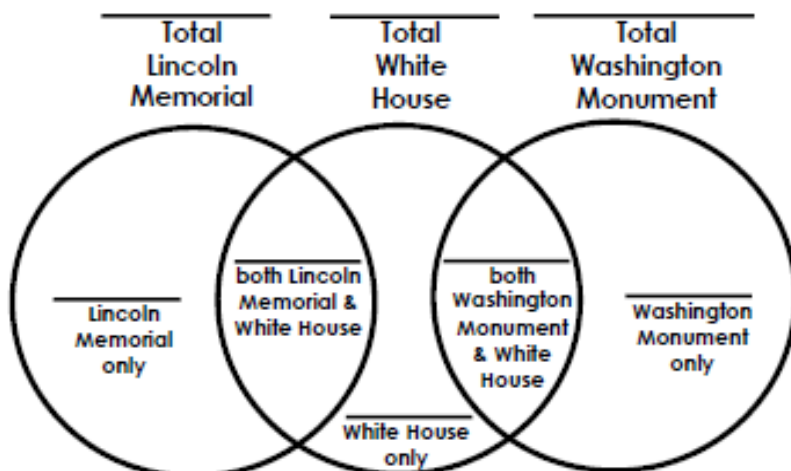
Mountain Trips

- 1.) 29 classmates will visit mountains this summer.
- 2.) 9 will visit Pike's Peak only.
- 3.) 4 will visit Rainier only.



Washington D.C. Trips

- 1.) 48 classmates will visit Washington D.C. this summer.
- 2.) 11 will visit both the Washington Monument and the White House.
- 3.) 20 will visit the White House in total.
- 4.) 12 will visit the Lincoln Memorial in total.
- 5.) 5 will visit the White House only.



Words Of Advice

Use two or more letters from the underlined word to make a new word or words that logically complete the sentence. When creating a word for a second blank in a sentence, you may use any letters in the underlined word, even if they have been used already.

- 1.) A good night's rest is your _____ priority.
- 2.) Use class time wisely. Less homework means _____ time for other activities.
- 3.) Helping others makes you _____ real _____.
- 4.) Celebrate the success of others if you want them to _____ about you _____.
- 5.) True friends _____ the best _____ you.
- 6.) If you don't seek challenges, you won't _____.
- 7.) It's good to _____ mistakes because they help you learn.
- 8.) Attempts at flattery will fall _____ this _____. Your teachers can smell _____!

Math Awards

The journey to the math awards is long and tough. Read the directions to see if you can draw a path to find the correct way to all three awards.

Directions:

- 1.) Start at zero, and move in any direction the arrows allow.
- 2.) Follow the arrows and perform the math operation at each step.
- 3.) If your number goes negative, start over.
- 4.) To finish, take the path that makes your number equal to the amount located above an award. (See if you can figure out how to win them all!)

