

Scribbles

Bringing colour to your lives

Volume No. 12

May - June 2021

Issue No. 3

From the Editor's desk...

Dear colleagues and families,

'Scribbles' Summer Special is here again, packed with 100 activities to bring some cheer amidst the tensions and anxiousness of the Pandemic that has engulfed us, changed our lives and set some new normals.

The book aims not only to beat the summer heat, but also to keep people of all ages engaged indoors.

As we continue to take necessary precautions – wearing masks, washing hands and physical distancing – to fight COVID-19, let's remember: **Tough Times Don't Last, but Tough People Do.**

Best regards,

Ananda Jagan

HOLIDAY SPECIAL



Colour Word Search

Activity 1
(Age: 3 - 5)

Find the colours.



COLOUR WORD SEARCH

Y	B	R	B	P	G
E	L	E	R	I	G
L	U	D	O	N	R
L	E	S	W	K	E
O	R	A	N	G	E
W	H	I	T	E	N

HINT: The first letter of the word begins with its colour

RED

GREEN

BROWN

BLUE

PINK

WHITE

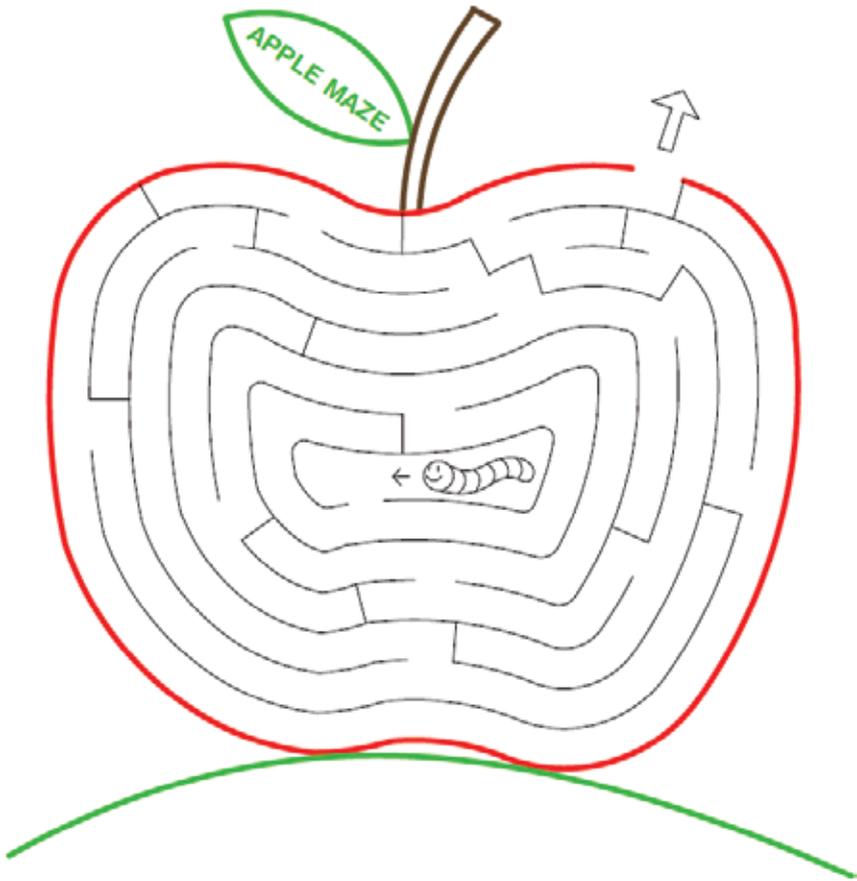
YELLOW

ORANGE

Apple Maze

Activity 2
(Age: 3 - 5)

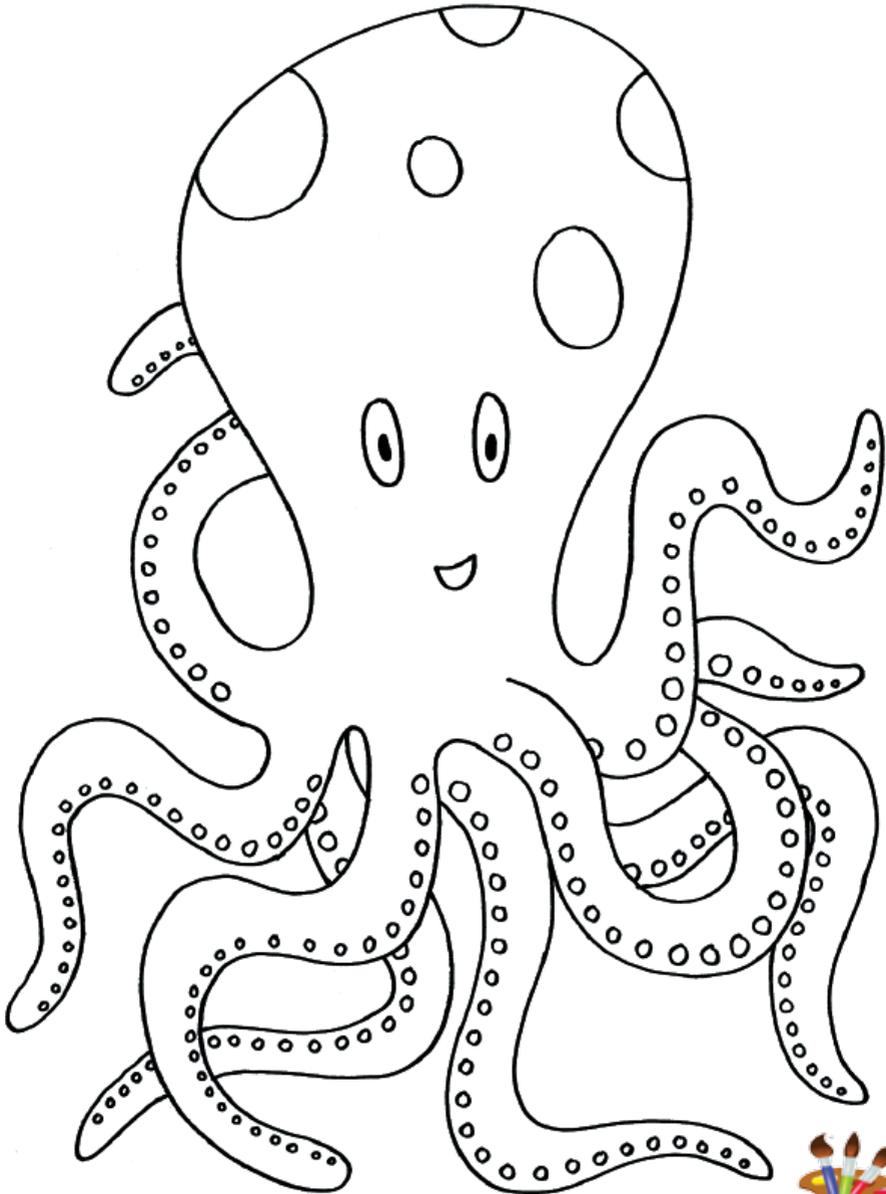
Help the worm get out of the maze.



Colour the Octopus

Activity 3
(Age: 3 - 5)

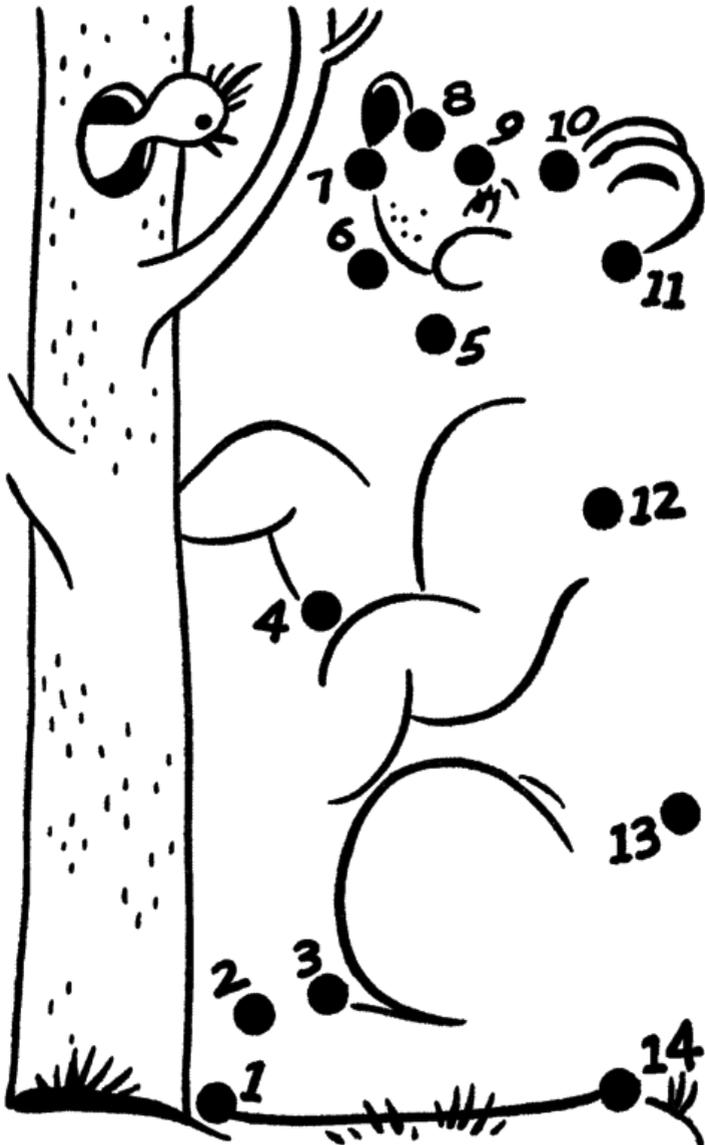
Make the Octopus colourful.



Join the Dots and Colour

Activity 4 (Age: 3 - 5)

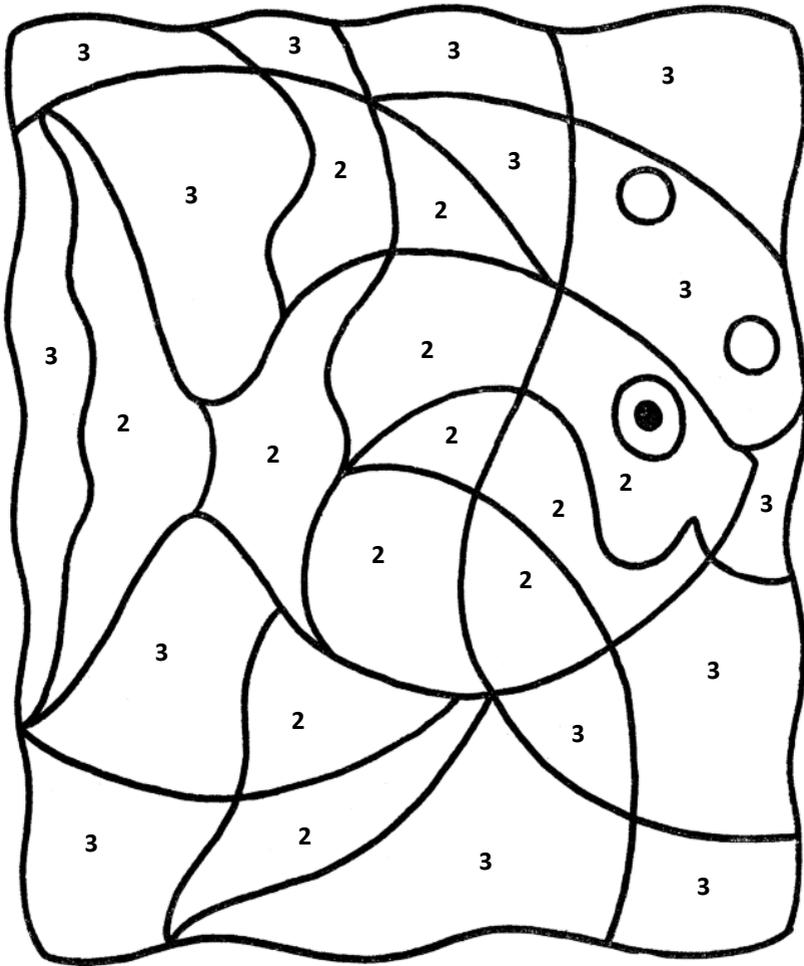
Join the dots and complete the picture. Colour it for fun.



Colour to Find Me

Activity 5 (Age: 3 - 5)

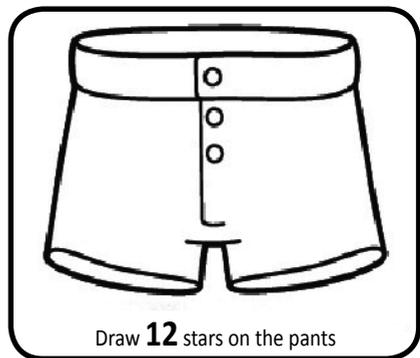
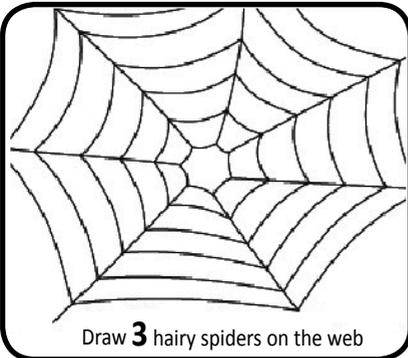
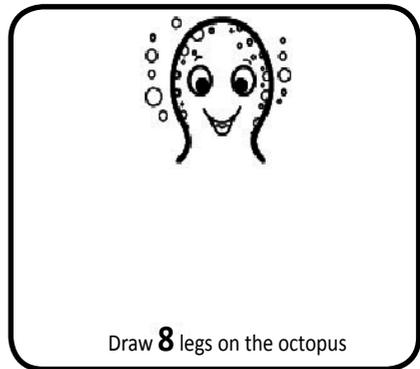
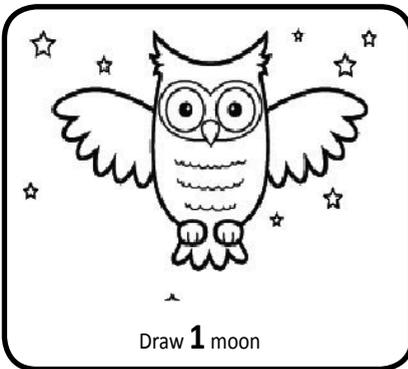
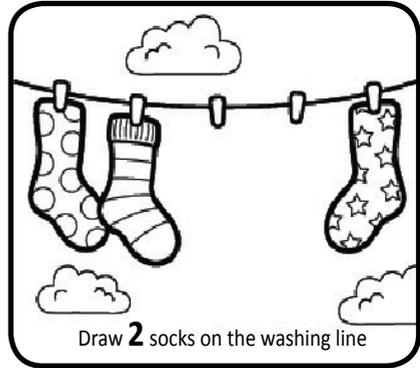
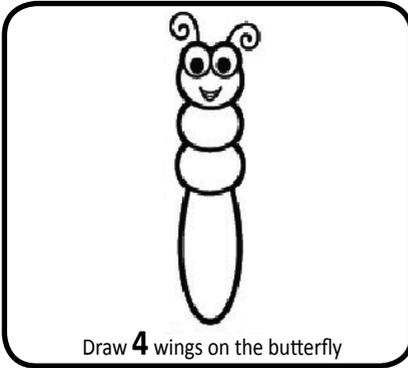
Colour the Picture. Use Red for 2 and Blue for 3.



Something is Missing

Activity 6 (Age: 3 - 5)

These pictures all have something missing. Draw in the missing items and colour the pictures.



Five Senses

Activity 7 (Age: 3 - 5)

Draw a line to match up the sense to the pictures, then write some more examples of things you might experience with each sense.



Sight



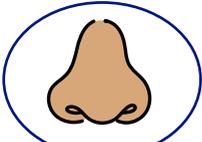
More examples:



Sound



More examples:



Smell



More examples:



Taste



More examples:



Touch



More examples:

Birthday Party Crossword

Activity 8 (Age: 5-7)

Fill in the puzzle grid with the name of each item following the number and direction indicated. Use the word bank if you get stuck.

1→

16→

2↓

3→

4→

8↓

6↓

10↓

9↓

5→

7→

9→

11→

12→

14→

15→

13↓

Word Bank

Balloon	Games
Bow	Gift
Cake	Ice cream
Candle	Magic
Candy	Music
Chocolate	Party Hat
Clown	Popcorn
Cupcake	Prize
Fireworks	Punch

Farm Animals Word Search

Activity 9
(Age: 5 - 7)

Help Mowly the Turkey to find her friends in the grid.



Chicken

Cow

Donkey

Goat

Horse

Pig

Rabbit

Sheep

Turkey



Colour and Reveal Me

Activity 10 (Age: 5-7)

Colour the spaces with dots in blue to reveal the picture.



Find the Hidden Animal

Activity 11
(Age: 5 - 7)

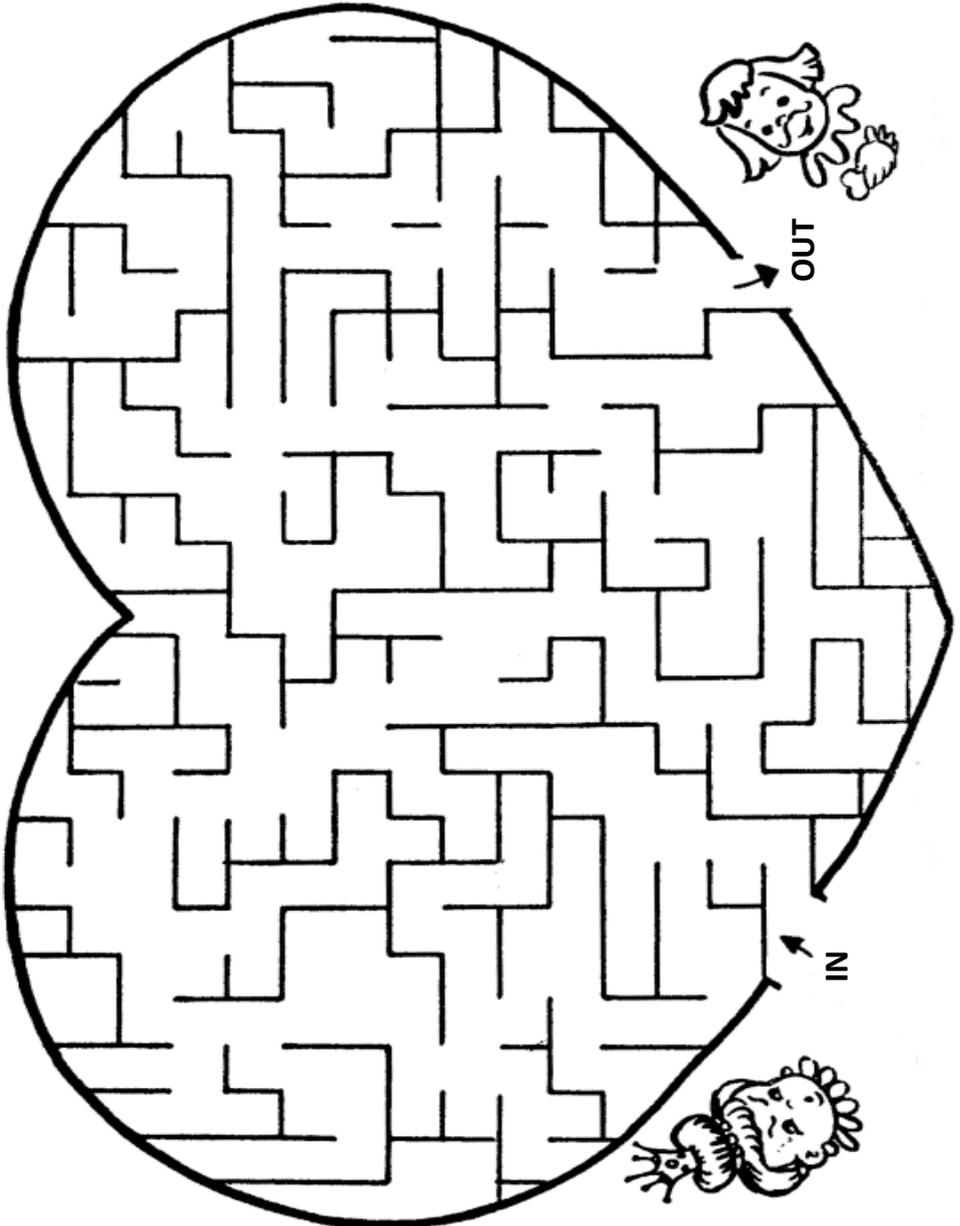
Mr Rabbit doesn't know that Mr Turtle reached before him and is hiding. Find the turtle and colour the picture.



The Tart Maze

Activity 12
(Age: 5 - 7)

Help the Queen of Hearts find who stole the tarts.

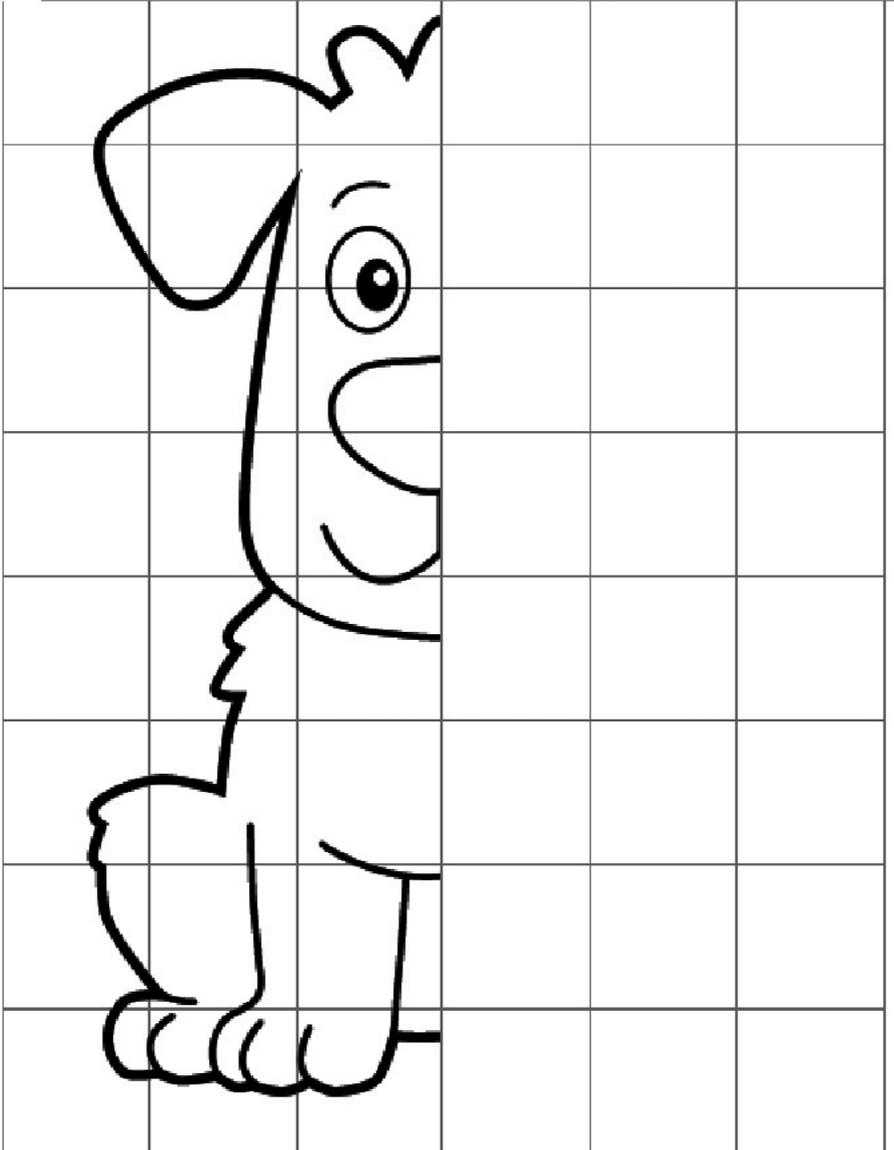


Draw the Other Half!

Activity 13

(Age: 8 - 10)

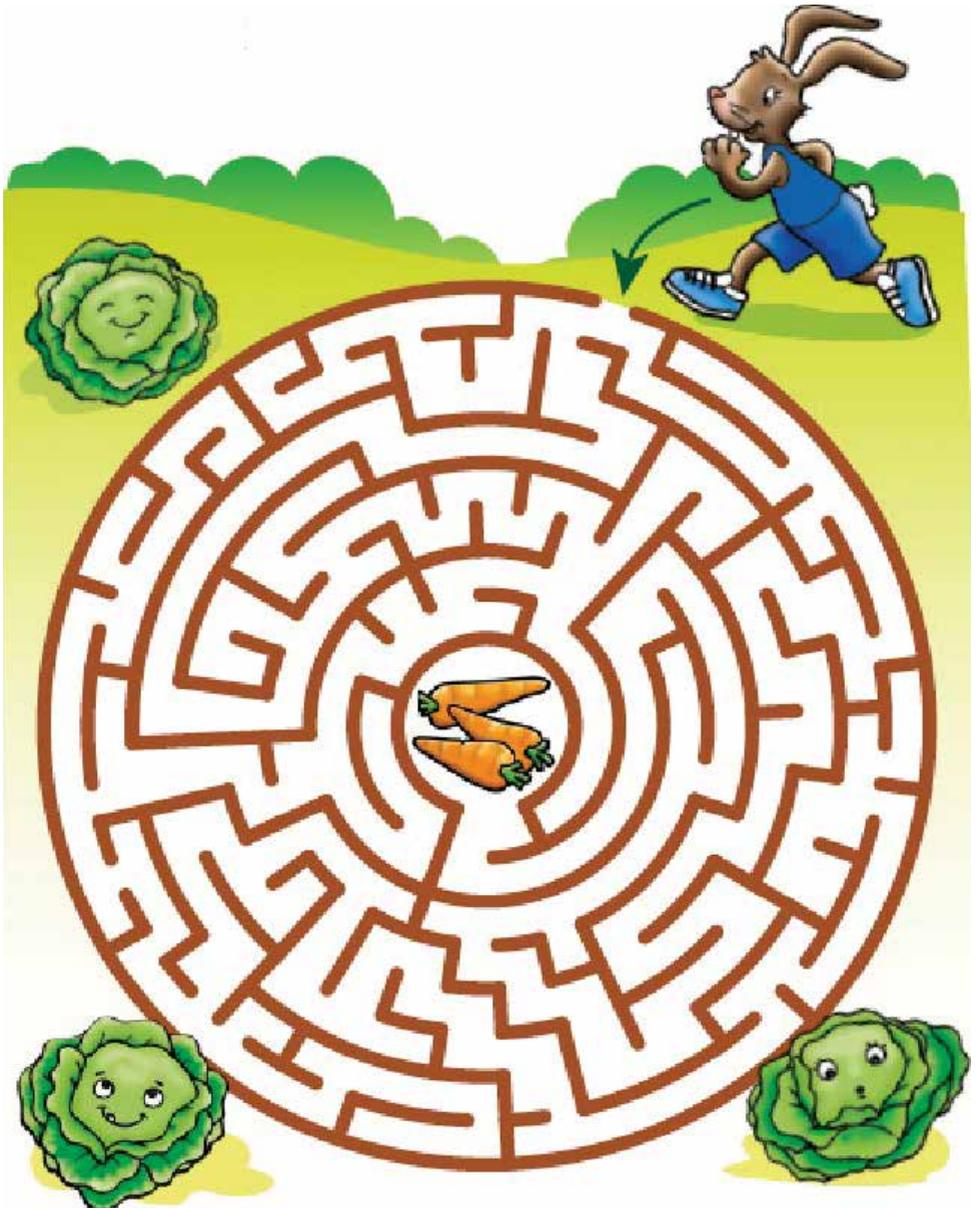
Draw the other half of the Red Dog. Use the grid as a reference to help you match up the lines. And colour him in!



Run, Rabbit, Run!

Activity 14
(Age: 8 - 10)

Can you help the rabbit find his way through the maze, to the carrots in the centre?



Animal Word Search

Activity 15 (Age: 8+)

Find and circle the animal names in the grid. Look for them in all directions including backwards and diagonally.

- Alligator
- Ants
- Assassin Bug
- Bees
- Cape Buffalo
- Crocodile



- | | |
|------------------|------------|
| Deer | Lion |
| Dogs | Mosquitoes |
| Elephant | Roundworm |
| Freshwater Snail | Scorpion |
| Hippo | Shark |
| Horse | Snakes |
| Humans | Tapeworm |
| Jellyfish | Tsetse Fly |
| Leopard | Wolf |

I Spy

Activity 16 (Age: 8+)

Find the hidden items and write the count below.



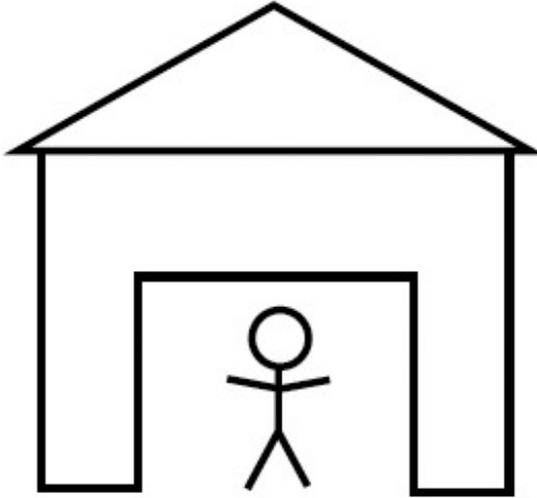
How many of each can you find?

<input type="checkbox"/>													
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Think Out of the Box

Activity 17
(Age: 8+)

Copy the image below without lifting the pencil from the paper.



Ditloid Puzzle

Activity 18
(Age: 8+)

Try to crack all the puzzles below.

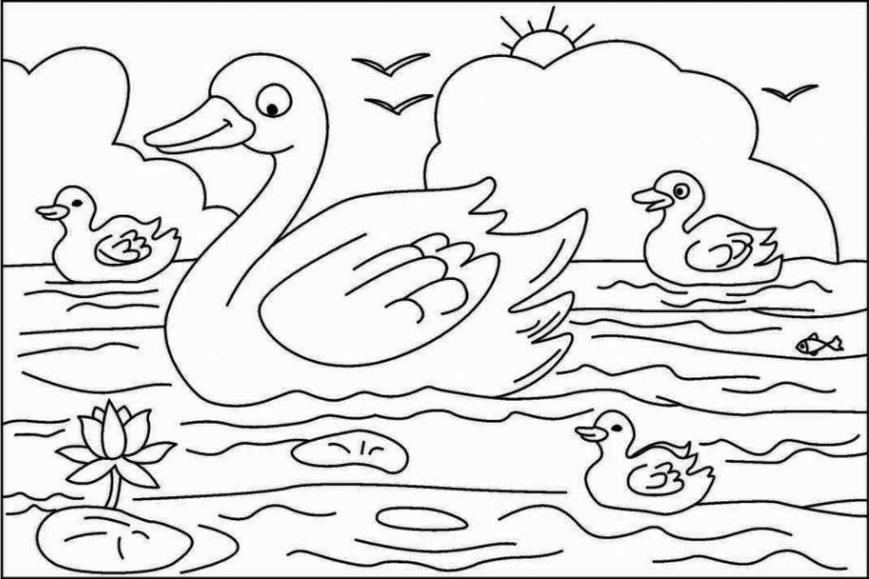
1. 366 D I A L Y _____
2. 7 B F 7 B _____
3. 101 D _____
4. 3 B M _____
5. T 39 S _____
6. 6 W O H T E _____
7. A B A T 40 T _____
8. T 7 W O T W _____
9. 50 W T L Y L _____
10. N 10 D S _____

Spot Ten Differences

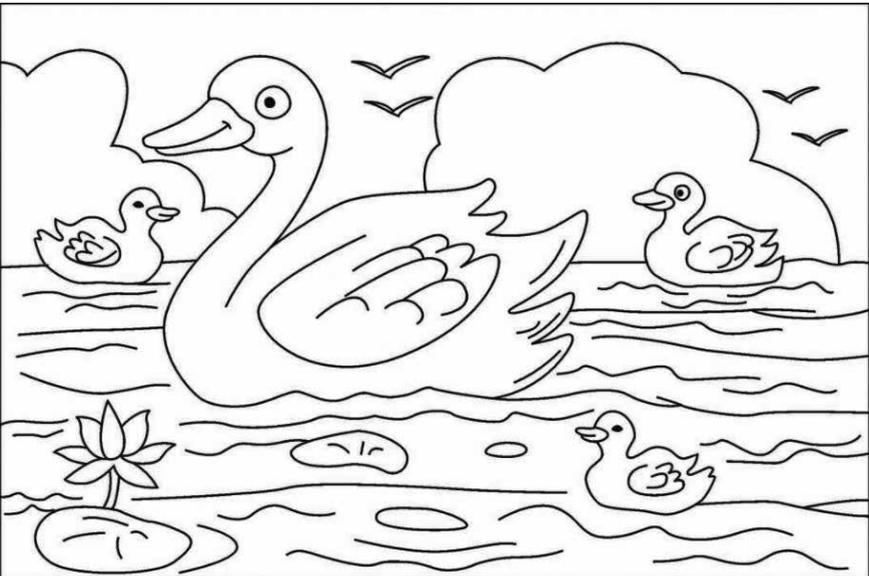
Activity 19 (Age: 8+)

Spot 10 differences between pictures A & B.

A



B



Jungle Jumble

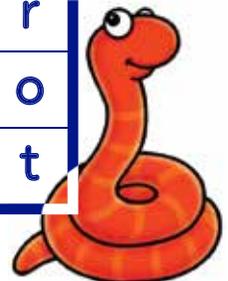
Activity 20

(Age: 8+)

Can you help Cheeky the monkey find yummy snacks and all his friends in the Jungle Jumble below?



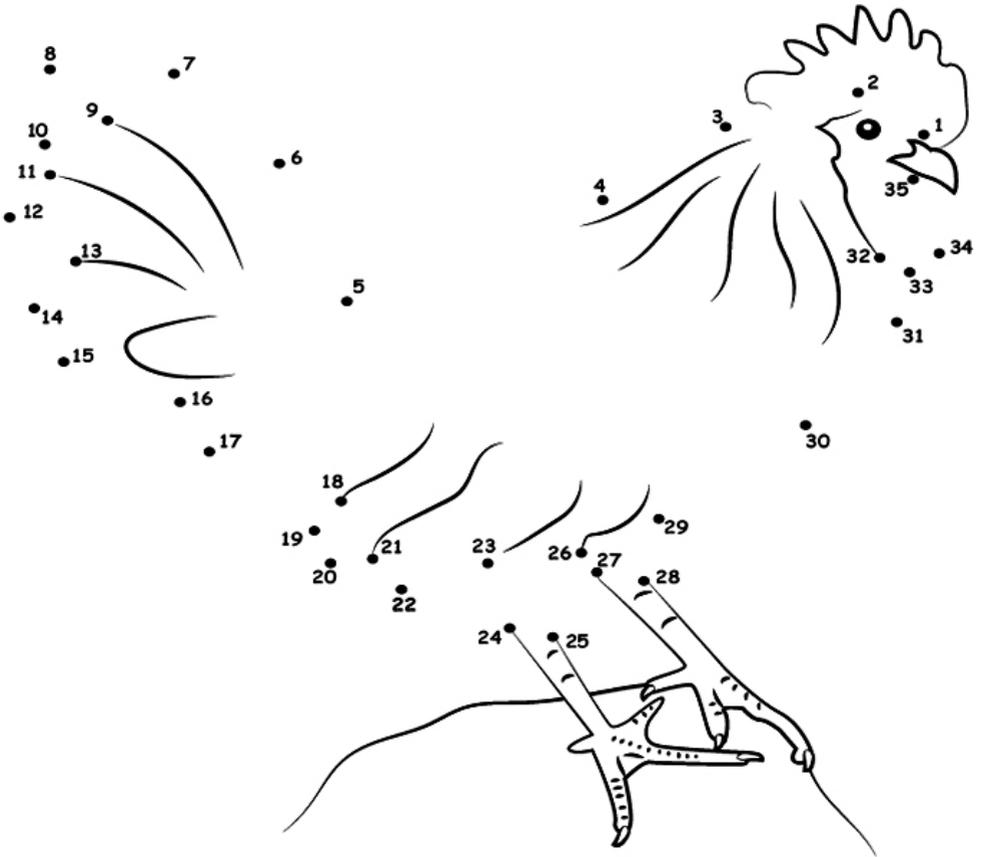
Banana	Lizard	Snake
Crocodile	Monkey	Tiger
Elephant	Parrot	



Farm Animal Dot to Dot

Activity 21 (Age: 8+)

Join the dots and find out the farm animal. Use your imagination and colour it.

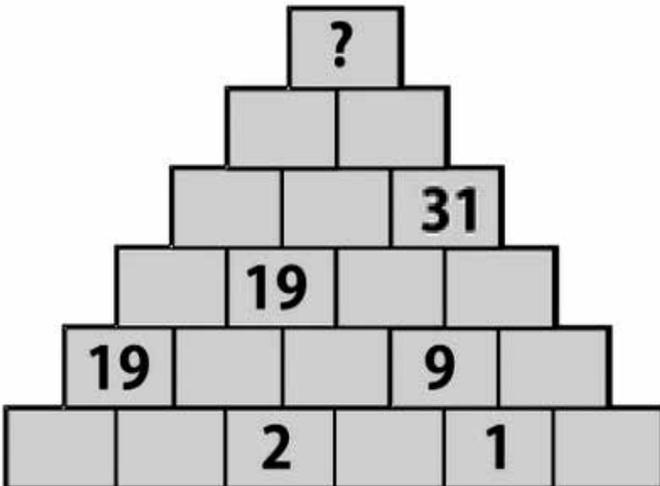
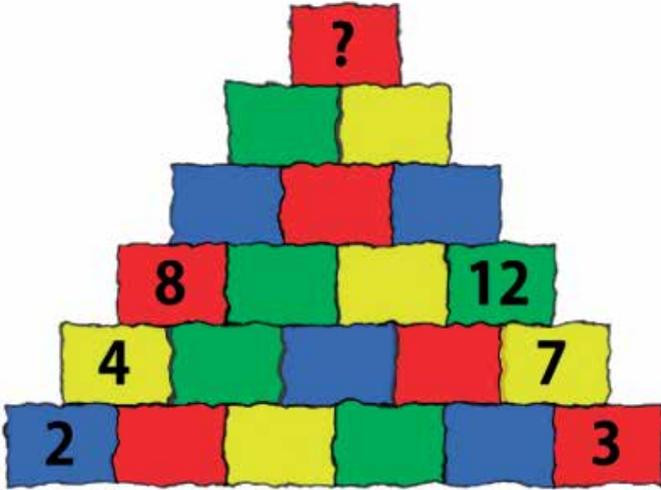


Pyramid Addition

Activity 22

(Age: 10+)

Can you figure out what the top number in the pyramid is?
 Add each pair of blocks together to find out the number that appears in the block just above them.



Magic Square

Activity 23 (Age: 10+)

Fill in the grids so that each column, row and diagonal add up to the given sum.

The sum is 15

2		
	5	3

The sum is 60

32		
		28
		8

The sum is 30

	10	6
12		

The sum is 60

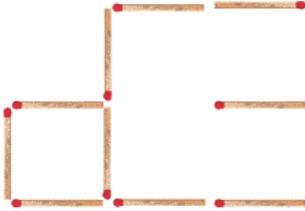
		16
28		
24		

Matchstick Puzzle

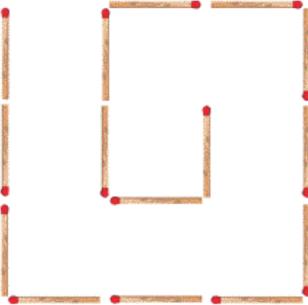
Activity 24 (Age: 10+)

Follow the instructions and crack each puzzle.

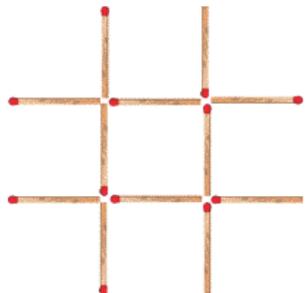
1. Move three matchsticks to make two squares.



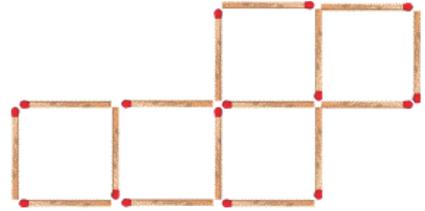
2. Move three matchsticks to make two squares



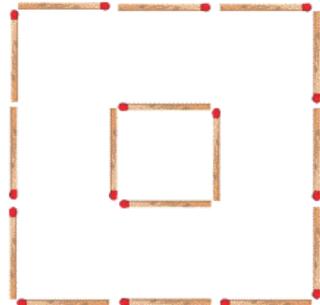
3. Move three matchsticks to make three squares



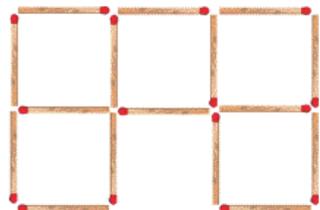
4. Move two matchsticks to make four squares



5. Move four matchsticks to make three square



6. Move three matchsticks to make four squares



Find the Number

Activity 25

(Age: 10+)

Can you identify the logic and find the missing number?

$8809=6$	$0000=4$
$7111=0$	$2222=0$
$2172=0$	$3333=0$
$6666=4$	$5555=0$
$1111=0$	$8193=3$
$3213=0$	$7777=0$
$7662=2$	$9999=?$

Riddle me

Activity 26

(Age: 10+)

- In the movie *Despicable me*, what's the name of Gru's assistant and friend?
 - Dr Fenario
 - Dr Renario
 - Dr Nefario
- Mixing blue and yellow colour produces this colour.
 - Green
 - Purple
 - Yellow
- What is a female goat called?
 - Mare
 - Doe
 - Ewe
- The process of water moving through a plant is called _____.
 - Filtration
 - Transpiration
 - Evaporation
- In Egyptian mythology, Khonsu is the God of the _____.
 - Moon
 - Sun
 - Sea
- What position did Benjamin Disraeli hold between 1874 and 1880?
 - American President
 - British Prime Minister
 - Governor General of Australia
- What type of crystal does a digital watch use to keep time?
 - Quartz
 - Titanite
 - Pyrite
- The distance from the centre of a circle to any point on that circle is the _____.
 - Circumference
 - Diameter
 - Radius

Letter Sudoku

Activity 27

(Age: 10+)

Letter Sudoku is played just like a regular sudoku, except that each of the digits is replaced by a unique letter. Each of the nine rows and columns, as well as each of the nine sub-regions, must contain one and only one of each of the nine letters.

D	A				G			E
		C	B		I			H
		H		E	A	I	D	
F	C	E					G	
		B				A		
	D					H	E	B
	I	D	G	C		F		
C			D		F	B		
H			I				C	D

I		B		D		F		E
		F	A		E			
H			C				D	G
	B		E		I	A	F	
C								B
	F	A	D		B		H	
F	E				D			I
			I		C	E		
B		I		E		D		A

Math Cross Numbers

Activity 28 (Age: 10+)

Each of the digits 1 through 9 is used once and only once in each of these puzzles. Can you figure out where they must be placed so that the equations (both horizontal and vertical) are true. Only positive numbers are involved.

(-		+	(= 8
-		+		÷	
)	-		+)	= 7
x		-		-	
(÷)	+		= 7
= 5		= 10		= 0	

(+	(-		= 4
+		x		+	
)	-)	+		= 8
-		-		-	
(x)	-		= 8
= 6		= 2		= 6	



Riddle Time

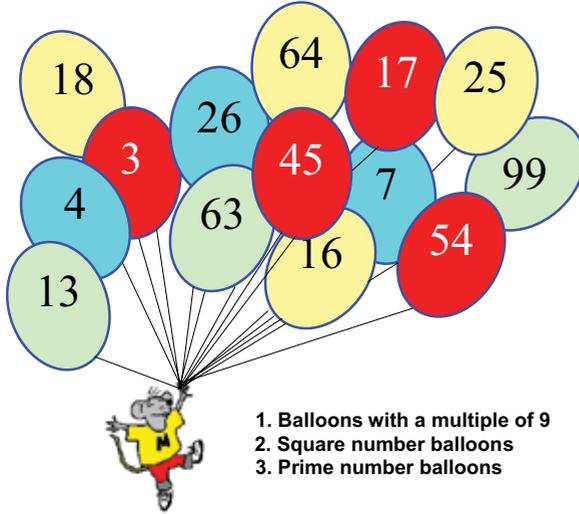
Activity 29 (Age: 10+)

- a. What has to be broken before you can use it?
- b. What goes up and never comes down?
- c. How can a man be 8 days without sleep?
- d. I'm full of keys but I can't open any door. What am I?
- e. What has a thumb and four fingers but is not alive?
- f. I'm light as a feather, yet the strongest man can't hold me for more than 5 minutes. What am I?
- g. What kind of coat can only be put on when wet?
- h. What has three feet but cannot walk?
- i. What runs, but never walks, often murmurs – never talks, has a bed but never sleeps, has a mouth but never eats?
- j. What is full of holes but can still hold water?
- k. What word is spelled wrong in every dictionary?
- l. What building has thousands of stories?
- m. What invention allows you to look right through a wall?
- n. I have no eyes, no ears, and legs, and yet I help move the earth. What am I?
- o. First, I threw away the outside and cooked the inside. Then I ate the outside and threw away the inside. What did I eat?

Balloon Bursting

Activity 30
(Age: 10+)

If a number in one of the balloons is included in the answers to the three problems below then that balloon will fly away.



1. Balloons with a multiple of 9
2. Square number balloons
3. Prime number balloons

WHICH BALLOON IS LEFT?

Dress up Addy

Activity 31
(Age: 10+)



Dress 'Addy'

Addy likes **red**, **blue** and **yellow**.

He has a **red**, a **blue** and a **yellow** hat.

He has a **red**, a **blue** and a **yellow** t-shirt and

he has a **red**, a **blue** and a **yellow** pair of shorts.



How many different ways can I dress - perhaps I could start with a red hat, red shirt and red shorts....

What's the Age?

Activity 32
(Age: 10+)

When Lisa was 6 years old,
her sister Lucy was half her age.

If Lisa is 40 years old today,
how old is Lucy?



Missing Number

Activity 33
(Age: 10+)

What is the value of
the missing number
in the diagram?



Guess the Number

Activity 34
(Age: 10+)

What are three different whole numbers whose sum AND product are equal?



$$A + B + C = D$$

$$A \times B \times C = D$$

Greater than and Lesser Than

Activity 35
(Age: 10+)



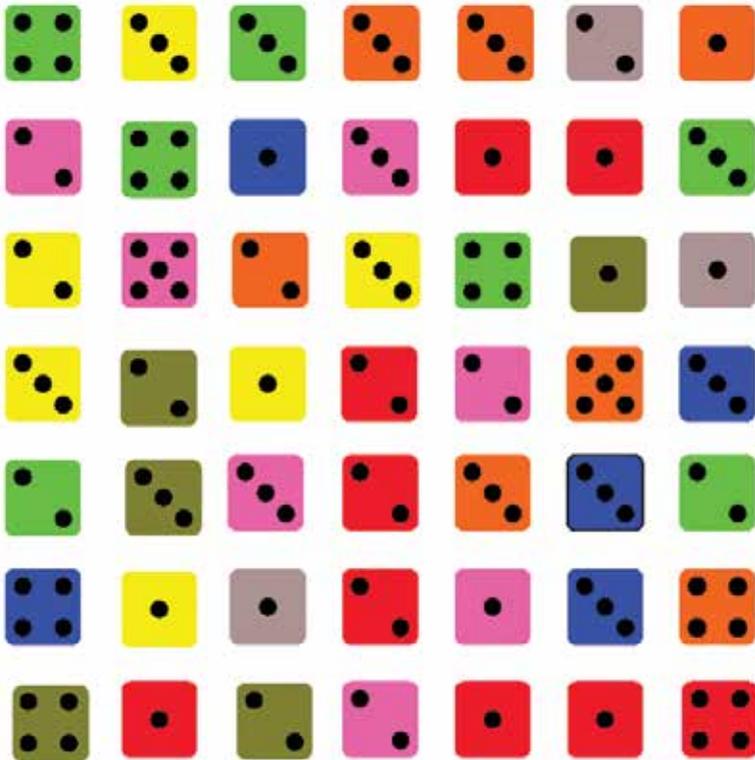
What can you put between a 7 and an 8 so that the result is GREATER THAN 7, but LESS THAN 8?

The Dice Problem

Activity 36

(Age: 13+)

Each space is occupied by a die whose colour corresponds to one of eight directions (up, down, left right and four diagonal directions that lie between these). Begin in the centre space (the red two in this case) and each time you land on a die, move the number of spaces that is indicated by the die and in the direction that is indicated by its colour. You should never jump off the board and you should land on every die, but only once. The question is which is the last die you land on.

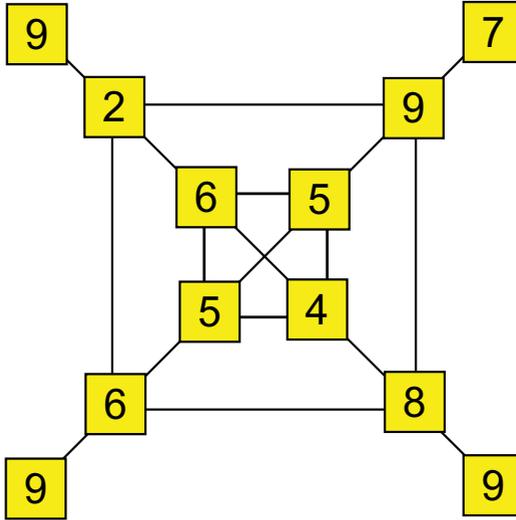


Highest Total

Activity 37

(Age: 13+)

Start anywhere and collect five numbers by following the paths - no jumping or going back over a path twice! What is the highest total you can make?



Add to Zero

Activity 38

(Age: 13+)

Here is a magic square which adds up to exactly nothing (Zero). Put the given numbers into the square, so that each row across, down and diagonally adds up to zero. Be careful with the negative numbers.

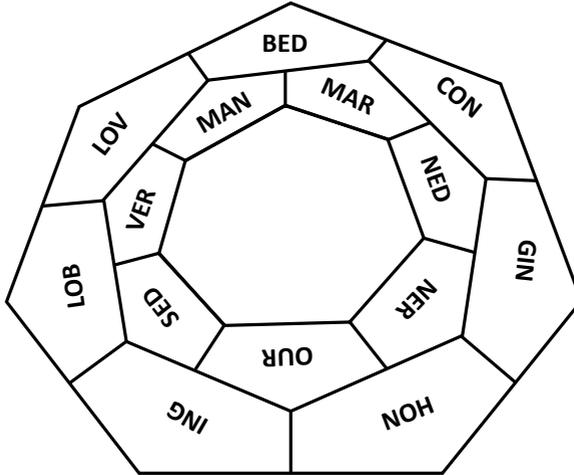
-4	-3	-2	-1	0	1
2	3	4			

Heptagon

Activity 39

(Age: 13+)

Arrange the 14 three-letter bits to make 7 six-letter words. More than one set of answers may be possible.

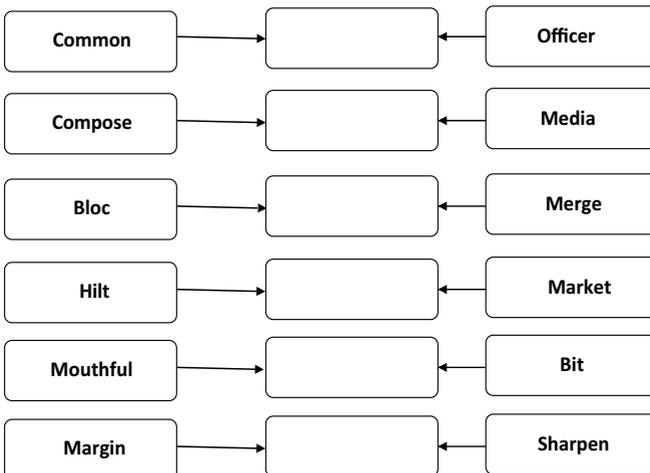


Missing Link

Activity 40

(Age: 13+)

It is your challenge to insert a word which means or signifies both the words it is linked to, into each of the vacant links in this puzzle.



Laddergram

Activity 41

(Age: 13+)

Write the word that fits definition 1 into space 1. Then drop one letter, rearranging the remaining letters to form the answer to definition 2. Drop one more letter, rearrange, and get the answer to definition 3. Put the first letter you dropped into the box at the left of the row, the second at the right. Solve each row this way. The letters in the side boxes, when read down, will spell out related words.

- | | | |
|-----------------------------|---------------------------------|-----------------------------------|
| 1. Human Pump | 7. viz | 12. Dashed |
| 2. Rip | 8. Coarse grained | 13. Dirty |
| 3. Facial feature | 9. Famous lock? | 14. _____ out: gives as |
| 4. Robs ships at sea | 10. Down the _____ :
wasted? | an aid |
| 5. Become narrow at the top | 11. Down pour | 15. Fixed quantity of
medicine |
| 6. Attractive | | |

	1	2	3	
	4	5	6	
	7	8	9	
	10	11	12	
	13	14	15	

Shakespeare Cryptogram

Activity 42

(Age: 13+)

Decipher the famous Shakespearean cryptogram.

BQQ RXC MAYQF' H B HRBIC, BLF
 BQQ RXC VCL BLF MAVCL VCYCQT
 OQBTCYH; RXCT XBKC RXCPY CUPRH
 BLF RXCPY CLRYBLWCH; BLF ALC
 VBL PLXPH RPVC OQBTH VBLT
 OBYRH; XPH BWRH NCPLI HCKCL
 BICH.



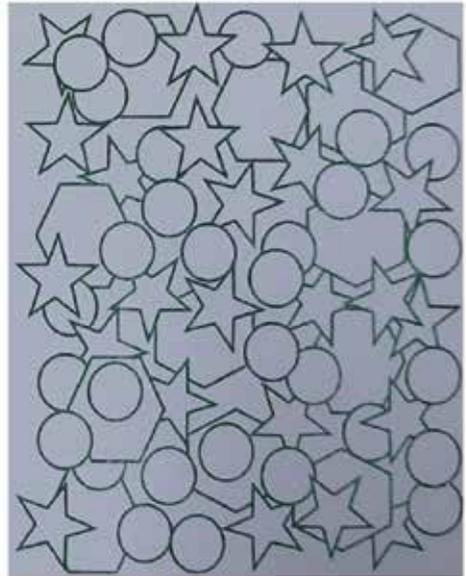
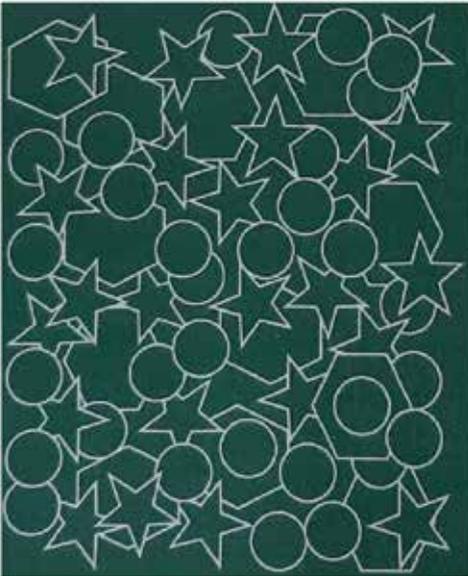
BH TAJ QPEC PR

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
O																							H		

Spacechasers

Activity 43 (Age: 13+)

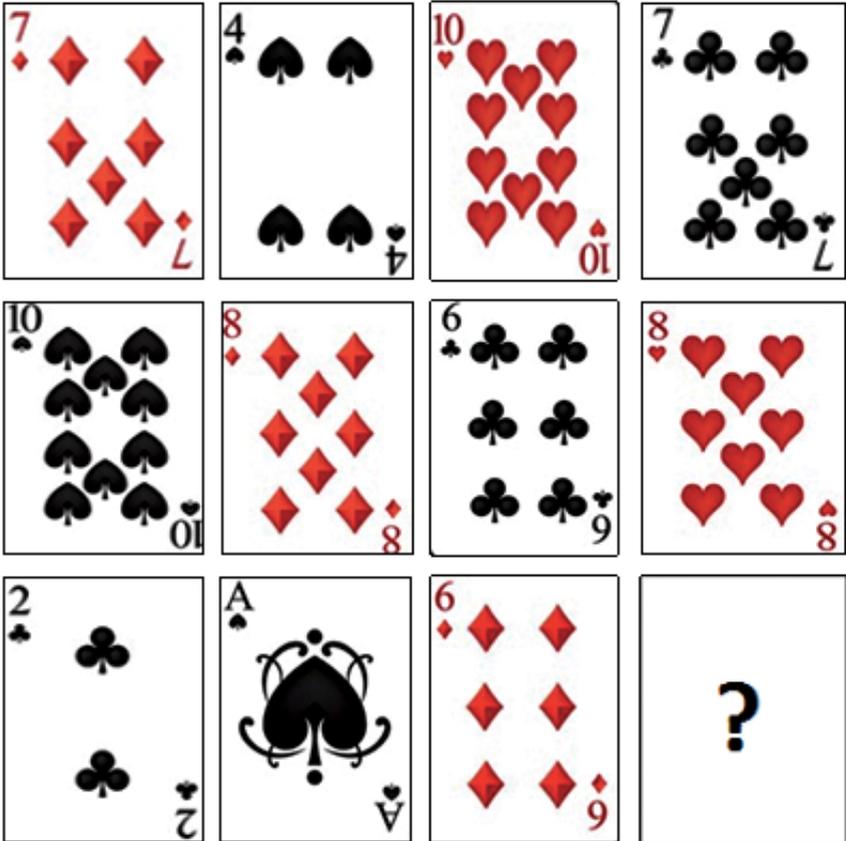
A new astrophysics student designs this poster set to promote the weekly Spacechasers Disco. It's a spot the difference challenge with a twist: Can you locate eight variations between the two pictures, given that one is a negative reflection of the other? Mark them on the picture on the right.



Cards Puzzle

Activity 44
(Age: 13+)

Which playing card completes the puzzle?



Number Puzzle

Activity 45

(Age: 13+)

Choose the right option for the missing space.

15	81	57
49	98	63
36	54	18

9	33	48
28	84	14
63	12	39

24	15	63
21	56	91
78	42	84

?

A

B

C

D

18	9	36
35	63	9
45	39	21

77	30	45
84	28	21
57	12	27

3	30	53
70	42	56
48	69	3

21	75	54
77	14	42
33	6	42



Sudoku

Activity 46

(Age: 13+)

Sudoku is played on a grid of 9 x 9 spaces. Within the rows and columns are 9 “squares” (made up of 3 x 3 spaces). Each row, column and square (9 spaces each) needs to be filled out with the numbers 1-9, without repeating any numbers within the row, column or square.

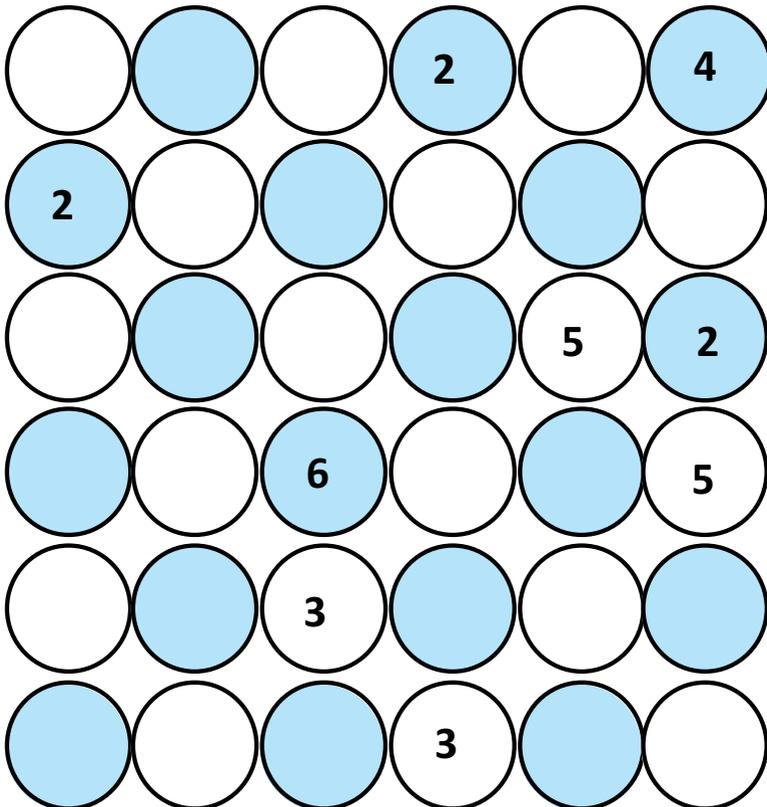
	6					7		
8		9		6		5		
2	4	5		1		8		
			5					4
	5	4				6	9	
3					6			
		7		5		1	2	6
		2		7		4		5
		1					7	

Odds 'N' Evens Number Tiptoe

Activity 47

(Age: 13+)

A designer creates the number tiptoe puzzle as a fun numeric challenge for a touch-screen smart phone or tablet computer. The task is to fill in the circle so that every row and column of six circles contains the numbers 1- 6 inclusive. The white circles can contain only odd numbers (1,3 & 5), while the shaded circles can contain only even numbers (2, 4 & 6). Some numbers are already in place.



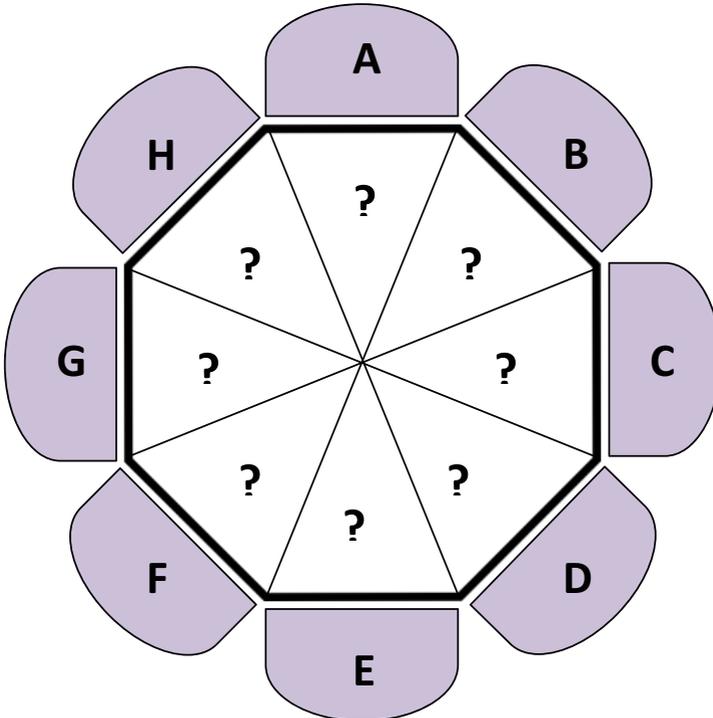
Octagon Puzzle

Activity 48

(Age: 13+)

Each of the eight sections of the table, A-H, contains a different number between 1 and 20. See if you can work out each one from the information below.

- $C \text{ minus } F = A$
- $B \text{ squared} = D$
- $B + G + F = C$
- $H \text{ minus } (A \text{ and } G) = E$
- $D = F \text{ times } E$
- $F \text{ squared} = B$
- $G \text{ is one-eighth of the total of } D \text{ plus } E$



The Judge's Wife

Activity 49

(Age: 13+)

A 1	G 7	M 13	S 19	Y 25
B 2	H 8	N 14	T 20	Z 26
C 3	I 9	O 15	U 21	
D 4	J 10	P 16	V 22	
E 5	K 11	Q 17	W 23	
F 6	L 12	R 18	X 24	

Edwin is a judge and a numerologist. He is married to a woman whose name:

1. Has a “product” that is the same as that for JUDGE: using the correspondence of letters and numbers above, this product is $10 \times 21 \times 4 \times 7 \times 5$
2. Has no letter in common with JUDGE. (To find a woman whose name satisfied the conditions above in relation to EDWIN would have been impossible)
3. Has no third letter of the alphabet because 3 is his unlucky number.
4. Has its letters in alphabetical order when the first letter and the second letter are interchanged.

What is the name of the judge's wife?



Fun with Numbers

Activity 50

(Age: 13+)

Make your way from any square on the top row of the grid to any square on the bottom, passing only through that will divide exactly by seven.

35	3	22	56	18	17	27	75	14
70	27	65	70	76	92	93	62	56
42	77	76	84	91	14	35	55	84
44	84	88	90	60	15	42	44	91
9	34	29	44	71	8	7	31	35
87	14	63	84	77	28	98	26	63
85	91	36	58	22	89	99	10	7
39	42	28	56	91	34	20	69	85
27	13	43	57	98	16	56	41	28

The Staircase Race

Activity 51
(Age: No Bar)

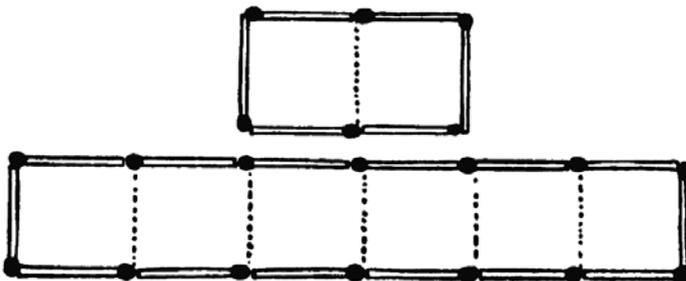
This is a rough sketch of the finish of a race up a staircase in which three men took part. Ackworth, who is leading, went up three steps at a time, as arranged; Barnden, the second man, went four steps at a time, and Croft, who is last, went five at a time. Undoubtedly Ackworth wins. But the point is, how many steps are there in the stairs, counting the top landing as a step? I have only shown the top of the stairs. There may be scores, or hundreds, of steps below the line. It was not necessary to draw them, as I only wanted to show the finish. But it is possible to tell from the evidence the fewest possible steps in that staircase. Can you do it?



The Twenty Matches

Activity 52
(Age: No Bar)

The illustration shows how twenty matches, divided into two groups of fourteen and six, may form two enclosures so that one space enclosed is exactly three times as large as the other. Now divide the twenty matches into two groups of thirteen and seven, and with them again make two enclosures, one exactly three times as large as the other.

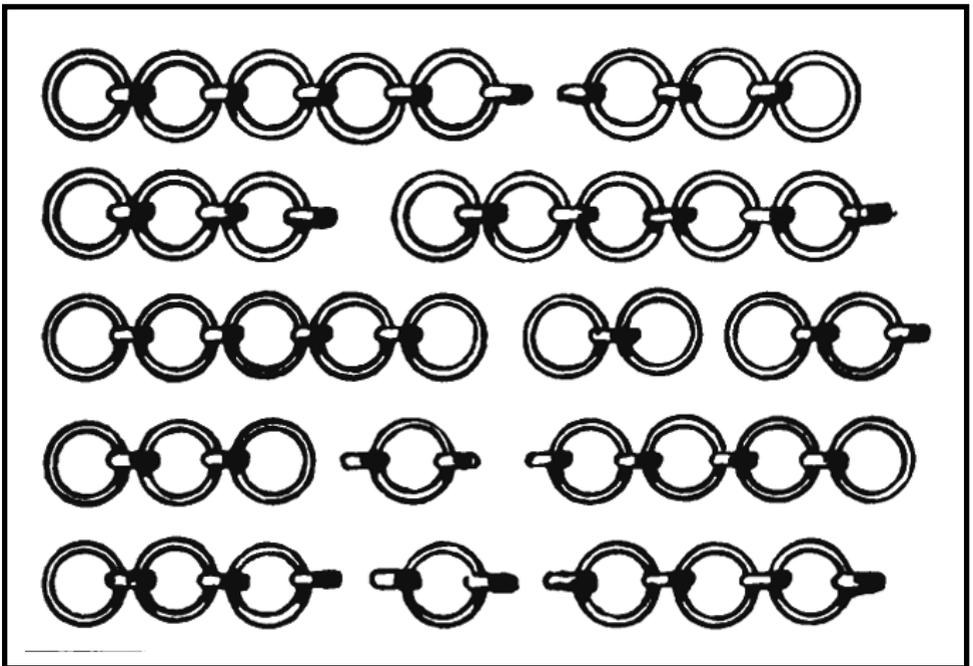


A Chain Puzzle

Activity 53

(Age: No Bar)

A man has eighty links of an old chain in thirteen fragments, as shown in the picture. It will cost him \$1 to open a link and \$2 to weld one together, again. What is the lowest price it must cost him to join all the pieces together so as to form an endless chain? A new chain will cost him \$36. What is the cheapest method of procedure? Remember that the large and small links must run alternately.



The Six Zeroes

Activity 54 (Age: No Bar)

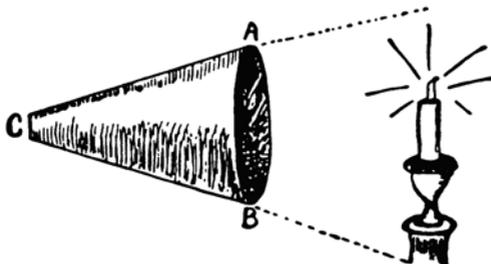
Write down the little addition sum A, which adds up 2,775. Now substitute six zeroes for six of the figures, so that the total sum shall be 1,111. It will be seen that in the case B five zeroes have been substituted, and in case C nine zeroes. But the puzzle is to do it with six zeroes.

A	B	C
111	111	100
333	333	000
555	500	005
777	077	007
999	090	999
<u>2775</u>	<u>1111</u>	<u>1111</u>

Blowing Out The Candle

Activity 55 (Age: No Bar)

Candles were lit on Colonel Crackham's breakfast table one foggy morning. When the fog lifted, the Colonel rolled a sheet of paper into the form of a hollow cone, like a megaphone. He then challenged his young friends to use it in blowing out the candles. They failed, until he showed them the trick. Of course, you must blow through the small end.





Cryptic Addition

Activity 56

(Age: No Bar)

Can you prove that the below addition is correct?

$$\begin{array}{r} 340 \\ 3414 \\ 340 \\ \hline 24813 \\ \hline 43323414 \end{array}$$

An Epitaph

Activity 57

(Age: No Bar)

Two grandmothers, with their two granddaughters;
Two husbands, with their two wives;
Two fathers, with their two daughters;
Two mothers, with their two sons;
Two maidens, with their two mothers;
Two sisters, with their two brothers;
Yet only six in all lie buried here;
All born legitimate, from incest clear.
How might this happen?

Hexagon to Diamonds

Activity 58
(Age: No Bar)

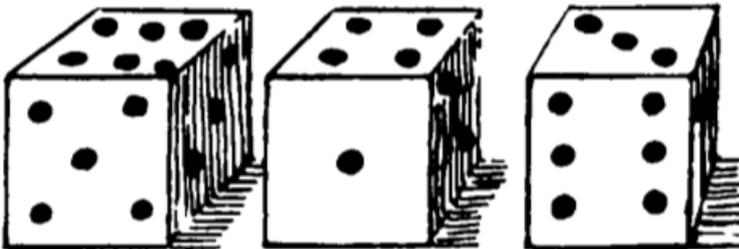
Here is a match puzzle. With 6 matches form a hexagon, as shown here. Now, by moving only 2 matches and adding 1 more, can you form two diamonds?



The Three Dice

Activity 59
(Age: No Bar)

Manu and Tanu were playing with three dice. The player won whenever the numbers thrown added up to one of two numbers he selected at the beginning of the game. As a matter of fact, Manu selected seven and thirteen, and one of his winning throws is shown in the illustration. What were his chances of winning a throw? And what two other numbers should Tanu have selected for his own throws to make his chances of winning exactly equal?

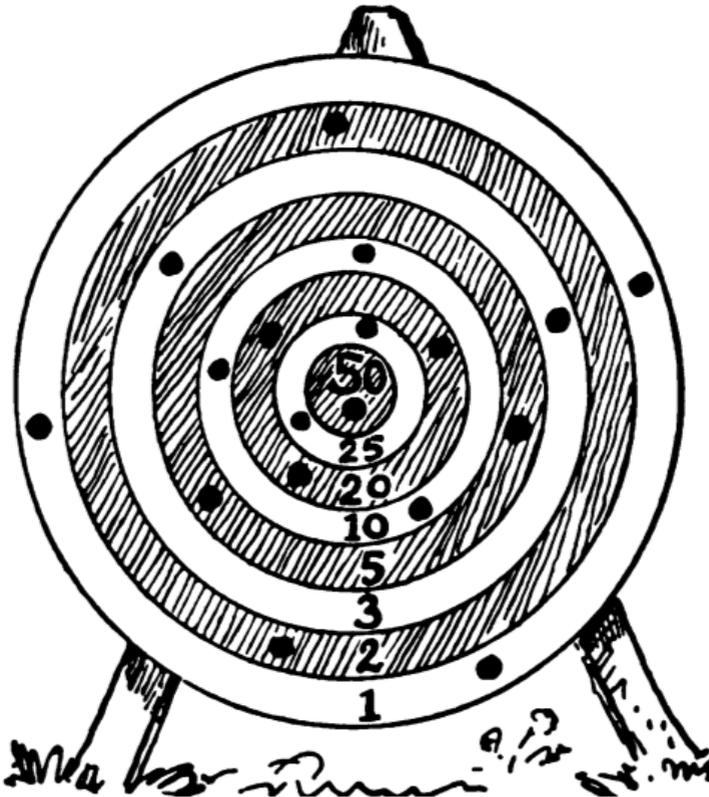


Target Practice

Activity 60

(Age: No Bar)

Colonel Cavin paid a visit one afternoon by invitation to the Club, where he picked up the following little poser. Three men in a competition had each six shots at a target, and the result is shown in our illustration, where they all hit the target every time. The bull's-eye scores 50, the next ring 25, the next 20, the next 10, the next 5, the next 3, the next 2, and the outside ring scores only 1. It will be seen that the hits on the target are one bull's-eye, two 25's, three 20's, three 10's, three 1's, and two hits in every other ring. Now the three men tied with an equal score. Next morning the Colonel asked his family to show the exact scoring of each man. Will it take the reader many minutes to find the correct answer?





Riddles

Activity 61 (Age: No Bar)

- a. I speak without a mouth and hear without ears. I have no body, but I come alive with wind. What am I?
- b. You measure my life in hours and I serve you by expiring. I'm quick when I'm thin and slow when I'm fat. The wind is my enemy.
- c. I have cities, but no houses. I have mountains, but no trees. I have water, but no fish. What am I?
- d. What is seen in the middle of March and April that can't be seen at the beginning or end of either month?
- e. What word in the English language does the following: the first two letters signify a male, the first three letters signify a female, the first four letters signify a great, while the entire word signifies a great woman. What is the word?
- f. What English word has three consecutive double letters?
- g. I come from a mine and get surrounded by wood always. Everyone uses me. What am I?
- h. A girl has as many brothers as sisters, but each brother has only half as many brothers as sisters. How many brothers and sisters are there in the family?
- i. What disappears as soon as you say its name?



Number Puzzles

Activity 62

(Age: No Bar)

- What will be the next number in this series?
1, 17, 98, 354, ?
- What will be the next number in this series?
11,15,19,18,26,21,32, 24,37,_____
- 0, 1, 5, 19, 65, 211, ?
- How to buy six products with Rs 20 without using paisa & without repeating numbers?
- Find the missing number

2	3	1	2
3	4	4	5
5	6	6	7
30	43	51	?

Number Puzzles

Activity 63

(Age: No Bar)

It is a 9 letter word - 123456789,

If u lose it you die,

If you have 234, you can 1234,

56 is one type of disease,

89 indicates exact location & time,

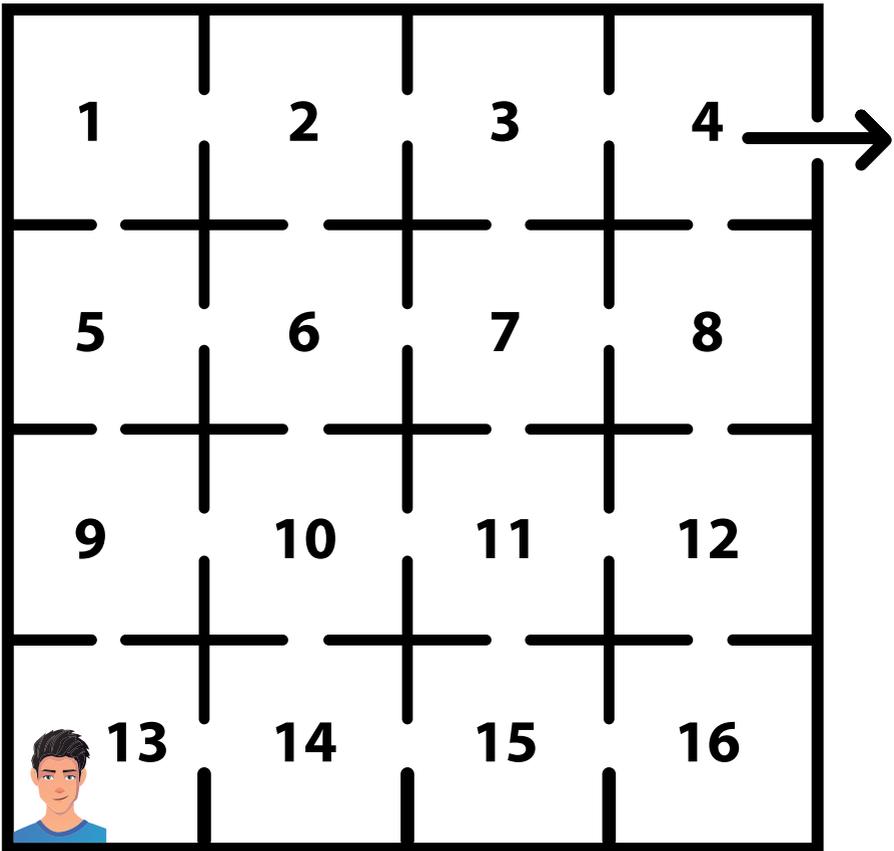
2 & 7 are same letter, 3 & 8 are same letter, 5 & 9 are same letter.

Guess the word.

Tricky Way

Activity 64 (Age: No Bar)

A patient in cell 13 is sick, he is allowed to go home but he wants to meet all other patients before he leaves, but the doctor said you are allowed to see each patient only once else there is a chance of you getting sick again, how can he do that?



Mervin's Age

Activity 65 (Age: No Bar)

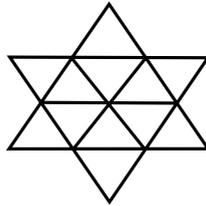
Prabakar said Colonel Calvin, “is now just one and one-third times as old as he was when he built his house. Little Mervin, who was forty months old when Prabakar built his house, is now two years more than half as old as Prabakar’s wife, Bindhya, was when Prabakar built his house, so that when little Mervin is as old as Prabakar was when he built his house, their three ages combined will amount to just one hundred years. How old is little Mervin?”

Triangles

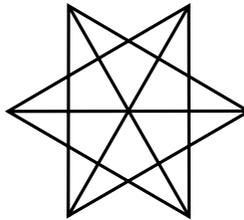
Activity 66 (Age: No Bar)

How many triangles does each figure have?

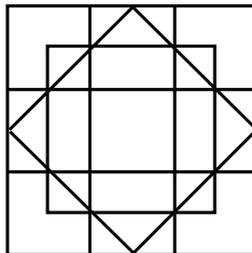
a.



b.



c.



Hidden words

Activity 67
(Age: No Bar)

Find four hidden words.



The Nine Barrels

Activity 68
(Age: No Bar)

In how many different ways may these nine barrels be arranged in three tiers of three so that no barrel shall have a smaller number than its own below it or to the right of it? The first correct arrangement that will occur to you is 1 2 3 at the top, then 4 5 6 in the second row, and 7 8 9 at the bottom, and my sketch gives a second arrangement. How many are there altogether?

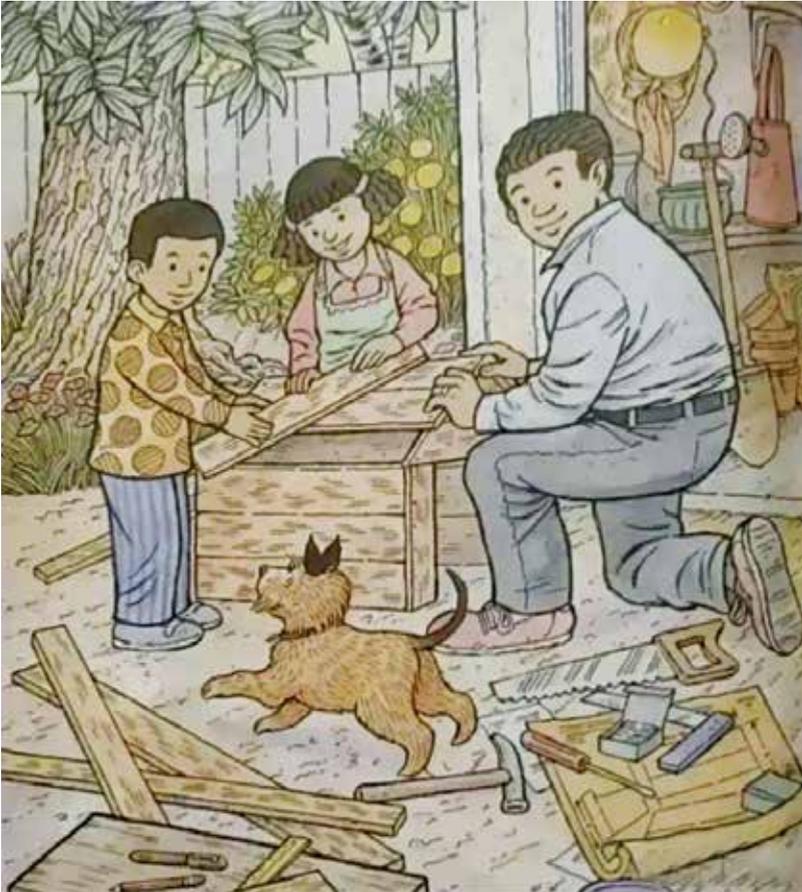


Search Hunt

Activity 69

(Age: No Bar)

Find a butterfly, bat and duck hidden in the picture below.



Picture Puzzle

Activity 70
(Age: No Bar)

Find the missing number.

$$\begin{array}{l}
 \text{Flower} + \text{Flower} + \text{Flower} = 24 \\
 \text{Teddy} + \text{Teddy} + \text{Flower} = 26 \\
 \text{Bow} + \text{Teddy} + \text{Flower} = 21 \\
 \text{Bow} + \text{Teddy} \times \text{Teddy} = ?
 \end{array}$$

The Full Glass

Activity 71
(Age: No Bar)

Which glass will get full first?



Get Cracking

Activity 72 (Age: No Bar)

Identify these street food items.

1. da
- 2.
3. da
- 4.
5. da
- 6.
7. os
- 8.
9. . bi
10. ab
- 11.
- 12.
- 13.

Word Puzzle

Activity 73 (Age: No Bar)

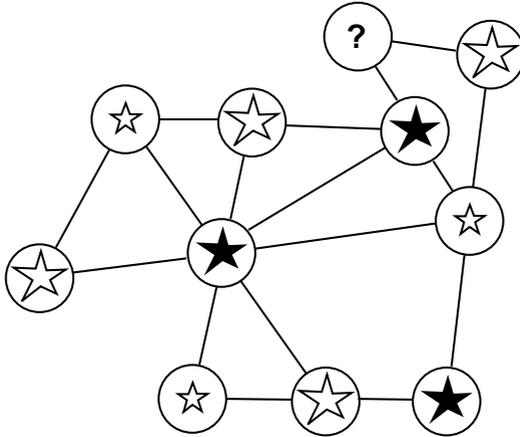
Each square contains the letters of a nine letter word. Find the two words that are similar in meaning.

T	S	I		
L	A	E		
O	C	L	E	C
		T	A	F
		U	T	U

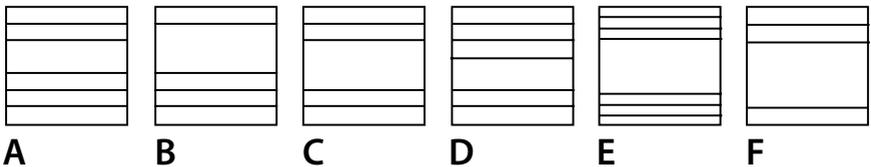
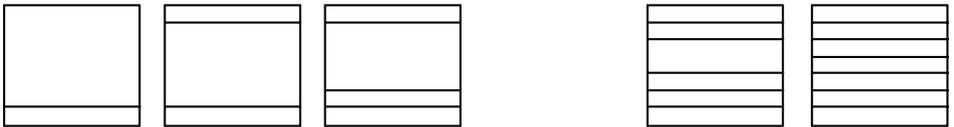
Missing Link

Activity 74 (Age: No Bar)

a. Which of the options is the right one?



b. Study the pattern and choose the right option.





Activity 75

(Age: No Bar)

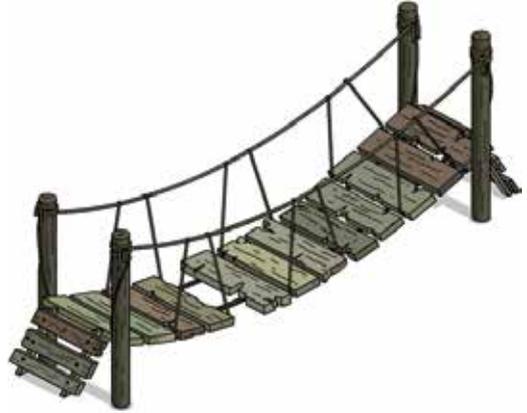
Murder Mysteries

- a. An old man lived alone in a small cottage. On a certain Thursday morning, while the mailman was delivering a letter he found out that the old man is murdered. He immediately calls the cops. When the cops arrive at the scene. They find two bottles of milk, Monday's newspaper, a catalog, flyers, and unopened mail. The police find the suspect. Who is the suspect and why?
- b. A dead body is found at the bottom of a multistorey building. It looks quite clear that the person has committed suicide by jumping off from one of the floors. A detective comes, goes to the first floor and walks to the room facing the direction in which the body was found. He opens the closed window of that room and flips a coin towards the floor. He goes to the second floor and does the exact same thing till the last floor. Then, when he climbs down, he tells the team that it is a murder, not suicide. How does he know that?
- c. A man was found dead with a cassette recorder in one hand and a gun in the other. When the police came in, they immediately pressed the play button on the cassette. He said "I have nothing else to live for. I can't go on," then the sound of a gunshot. After listening to the cassette tape, the police knew that it was not a suicide. How did they know?
- d. A famous chemist was found murdered. The police knew that two people were involved in the murder. They found a note written by the chemist which read – '26-3-58/28-27-57-16'. After reading the note the police immediately caught the murderers. How?

Cross the Bridge

Activity 76
(Age: No Bar)

Four people need to cross a rickety bridge at night. Unfortunately, they have only one torch and the bridge is too dangerous to cross without one. The bridge is only strong enough to support two people at a time. Not all people take the same time to cross the bridge. Time for each person: 1 min, 2 mins, 7 mins and 10 mins. What is the shortest time needed for all four of them to cross the bridge?



The Sand Timer

Activity 77
(Age: No Bar)



You have two sand timers with you. One can measure 7 minutes and the other sand timer can measure 11 minutes. This means that it takes 7 minutes for the sand timer to completely empty the sand from one portion to the other. You have to measure 15 minutes using both the timers. How will you measure it?

100 Doors

Activity 78

(Age: No Bar)

You have 100 doors in a row that are all initially closed. You make 100 passes by the doors starting with the first door every time. The first time through you visit every door and toggle the door (if the door is closed, you open it, if its open, you close it). The second time you only visit every 2nd door (door #2, #4, #6). The third time, every 3rd door (door #3, #6, #9), ec, until you only visit the 100th door. What state are the doors in after the last pass? Which are open which are closed?



The second time you only visit every 2nd door (door #2, #4, #6). The third time, every 3rd door (door #3, #6, #9), ec, until you only visit the 100th door. What state are the doors in after the last pass? Which are open which are closed?

Lateral Thinking

Activity 79

(Age: No Bar)

Put on your thinking hat and try to answer these questions

- A woman had two sons who were born on the same hour of the same day of the same year. But they were not twins. How could this be so?
- A man walks into a bar and asks the barman for a glass of water. The barman pulls out a gun and points it at the man. The man says 'Thank you' and walks out.
- A man is lying dead in a field. Next to him there is an unopened package. There is no other creature in the field. How did he die?
- A blind beggar had a brother who died. What relation was the blind beggar to the brother who died? (Brother is not the answer).
- A man rode into town on Friday. He stayed for three nights and then left on Friday. How come?
- A man went to a party and drank some of the punch. He then left early. Everyone else at the party who drank the punch subsequently died of poisoning. Why did the man not die?

Crossword

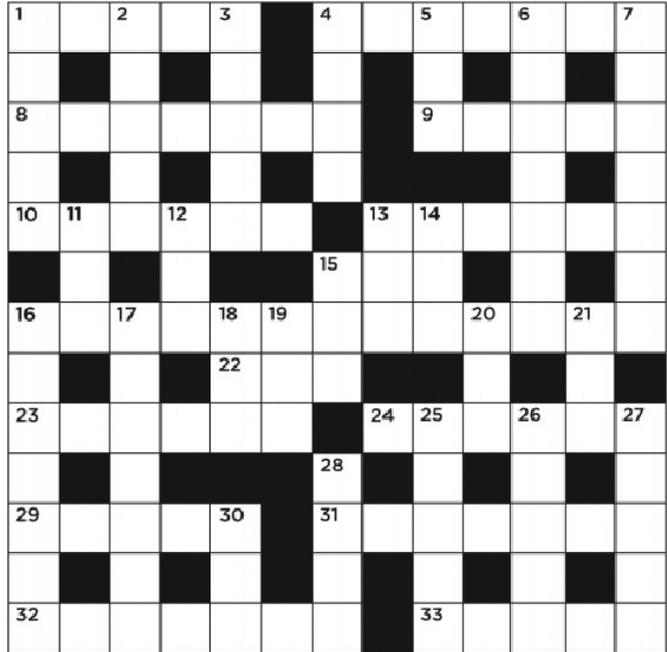
Activity 80

(Age: No Bar)

This puzzle features phrases, some of which begin with the word short. But to make these answers even briefer, we've omitted the short. So, for example, in response to the clue "Finalists," you'd write "list" in the grid ("short list").

Across:

1. Thick cookie
4. Brief documentary film
8. 1986 Ally Sheedy movie
9. Additional
10. CT's favorite spice
13. Cheat
15. Not me, but...
16. Goldfish are said to have this
22. Bond creator Fleming
23. Deficiency
24. Type of energy
29. Imbibe
31. A T shirt for example
32. Myopic
33. Play a trick on a roommate



Down:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Breakfast meat 2. Leggy wading bird 3. Two-spot 4. Location 5. "See ya!" 6. Devoured 7. Swap 11. University of North Texas, for short 12. Banged stooge 13. Speak sweetly 14. Attila the _____ | <ol style="list-style-type: none"> 15. Yang partner 16. Video game parlors 17. Filling in 18. Author Anais 19. Prince place 20. _____Paulo 21. Onassis who wed Jackie 25. Elm, cherry and maple, for example 26. Flick 27. Military academy student 28. Secondhand 30. Caboodle sidekick? |
|---|---|

Spot the difference

Activity 81

(Age: No Bar)

Spot the eight differences between the two pictures.



1



2

Logic the Magic

Activity 82

(Age: No Bar)

a. Bottle of pills

We have 10 identical bottles of identical pills (each bottle contains hundred pills). Out of 10 bottles 9 have 1 gram of pills but 1 bottle has pills of weight of 1.1 gram. Given a measurement scale, how would you find the heavy bottle? You can use the scale only once.

b. Secret message

A wants to send a secret message to his friend B in the mail. But C (A's Friend), who A doesn't trust, has access to all A's mail. So A put his message in a box with a lock. But A is not allowed to send a key. How can A send his message through securely?

c. Grandma's Cake

You are on your way to visit your Grandma, who lives at the end of the valley. It's her anniversary, and you want to give her the cakes you've made. Between your house and her house, you have to cross 5 bridges, and as it goes in the land of make believe, there is a troll under every bridge! Each troll, quite rightly, insists that you pay a troll toll. Before you can cross their bridge, you have to give them half of the cakes you are carrying, but as they are kind trolls, they each give you back a single cake. How many cakes do you have to leave home with to make sure that you arrive at Grandma's with exactly 2 cakes?



Probable Probability

Activity 83 (Age: No Bar)

- a. How many people must be gathered together in a room, before you can be certain that there is a greater than 50/50 chance that at least two of them have the same birthday?
- b. In your sock drawer, you have a ratio of 3 pairs of blue socks, 4 pairs of brown socks, and 5 pairs of black socks. In complete darkness, how many socks would you need to pull out to get a matching pair of the same color?
- c. A certain mathematician, his wife, and their son all play a fair game of chess. One day when the son asked his father for Rs 1000 for a Sunday night date, his father puffed his pipe for a moment and replied, "Let's do it this way. Today is Thursday. You will play a game of chess tonight, tomorrow, and a 3rd on Saturday. If you win two games in a row, you get the money." "Whom do I play first, you or mom?" "You may have your choice," said the mathematician, his eyes twinkling. The son knew that his father played a stronger game than his mother. To maximise his chance of winning two games in succession, should he play father-mother-father or mother-father-mother?
- d. I'm a very rich man, so I've decided to give you some of my fortune. Do you see this bag? I have 1001 pearls inside it. 501 of them are white, and 500 of them are black. You are blind folded and I'll let you take out any number of pearls from the bag. If you take out the same number of black and white pearls, I will reward you with a number of coins equivalent to the number of pearls you took." How many pearls should you take out to give yourself a good number of coins while still retaining a good chance of actually getting them?

River Crossing Puzzle

Activity 84
(Age: No Bar)

Sailor Cadmus needs to bring a wolf, a goat, and a cabbage across the river. The boat is tiny and can only carry one passenger at a time. If he leaves the wolf and the goat alone together, the wolf will eat the goat. If he leaves the goat and the cabbage alone together, the goat will eat the cabbage. How can he bring all three safely across the river?



100 Prisoners and a Bulb

Activity 85
(Age: No Bar)

There are 100 prisoners in solitary cells, unable to see, speak or communicate in any way with each other. There's a central living room with one light bulb, the bulb is initially off. No prisoner can see the light bulb from his own cell. Every day, the warden picks a prisoner at random, and that prisoner goes to the central living room. While there, the prisoner can toggle the bulb if he wishes. Also, the prisoner has the option of asserting the claim that all 100 prisoners have been to the living room. If this assertion is false (that is, some prisoners still haven't been to the living room), all 100 prisoners will be shot for their stupidity. However, if it is indeed true, all prisoners are set free. Thus, the assertion should only be made if the prisoner is 100% certain of its validity.



Before the random picking begins, the prisoners are allowed to get together to discuss a plan. What plan should they agree on, so that eventually, someone will make a correct assertion?

Find the Sequence

Activity 86 (Age: No Bar)

a. All three pentagons are interconnected. Find the answer by deriving a relation between them.



2	11	20
4	9	32
7	8	49
4	10	??

b. Find missing number in this tricky number sequence puzzle

2	8
4	9
3	7
6	9
6	8
3	?

c. Find the missing number which comes at the end of this table and replaces the question mark.

Missing Number

Activity 87 (Age: No Bar)

Find the missing number in this math puzzle.

5		4
	2	
11		4

7		1
	5	
13		3

??		4
	4	
20		4

Find the Number

Activity 88 (Age: No Bar)

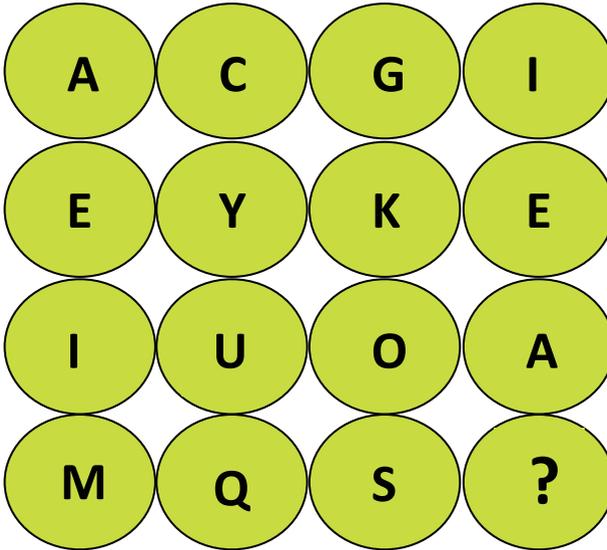
Guess the number that needs to go in the blank segment.



Alpha Sequence

Activity 89 (Age: No Bar)

Which letter would replace the question mark?



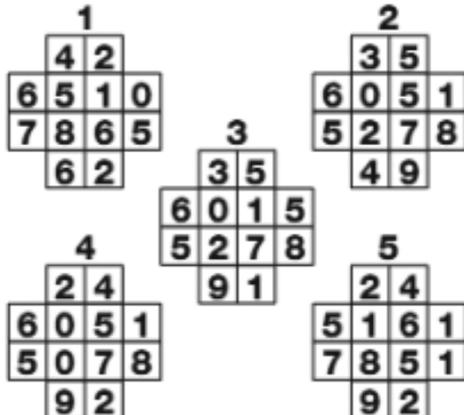
1. W, 2. E, 3. R, 4. T

Shape to Fill

Activity 90 (Age: No Bar)

Which shape completes the puzzle?

5	3	6	4	8	1	9	7	2	0
5	1	0	2	9	4	7	3	8	6
3	8	1	6	0	2	9	5	7	4
6	7	3	9			8	0	1	5
3	7	4				8	2	9	
2	9	1				4	6	3	
0	8	3	7			5	1	6	4
7	0	2	4	1	6	3	9	8	5
0	8	1	5	2	4	3	7	9	6
2	6	8	1	3	5	0	9	4	7



Symbols Puzzle

Activity 91 (Age: No Bar)

Look carefully at the sequence of symbols to find the pattern. Select the correct pattern.

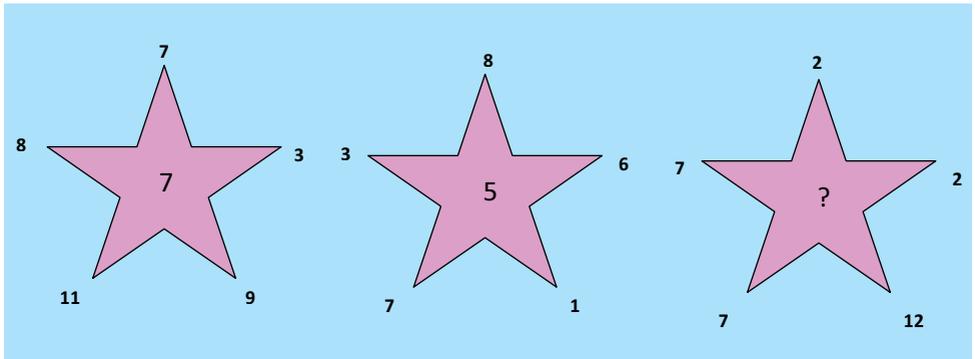


-
- (1)**
 - (2)**
 - (3)**
 - (4)**

Starry Numbers

Activity 92 (Age: No Bar)

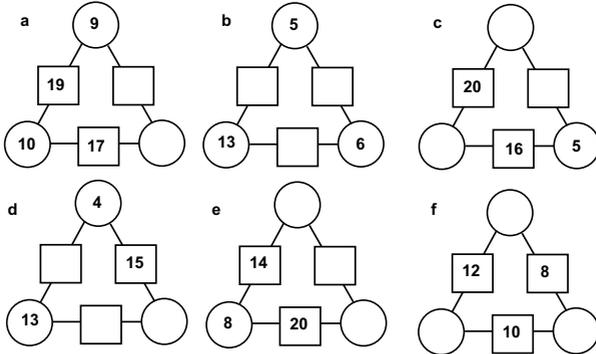
Find the number which would replace the question mark.



Triangle Arithmagons

Activity 93 (Age: No Bar)

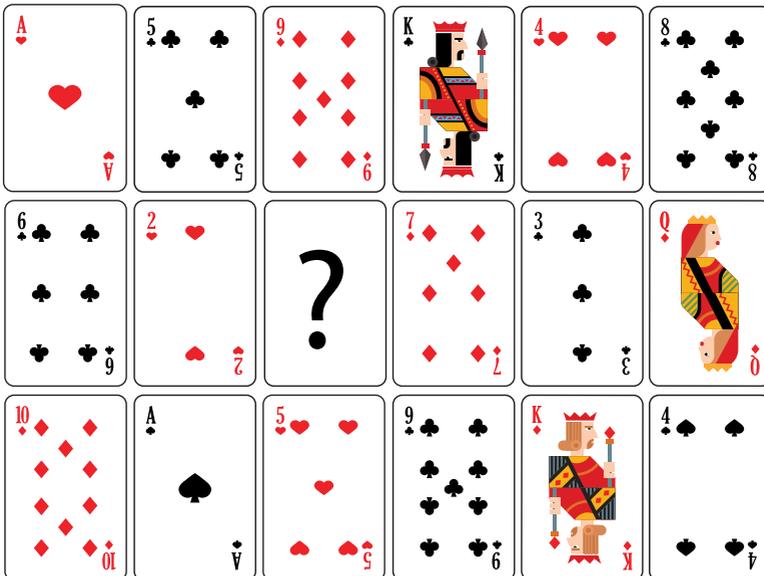
The numbers in the circles added together makes the number in the linking rectangle. Find the missing number in the puzzle.



Cards Puzzle

Activity 94 (Age: No Bar)

Which card replaces the question mark?



Sudoku

Activity 95 (Age: No Bar)

Sudoku is played on a grid of 9 x 9 spaces. Within the rows and columns are 9 “squares” (made up of 3 x 3 spaces). Each row, column and square (9 spaces each) needs to be filled out with the numbers 1-9, without repeating any numbers within the row, column or square.

					5	4		
2								
		9	1	6		3	5	
				3			2	5
4								3
6	8			2				
	3	7		9	2	1		
								7
		6	8					

Guess the Time

Activity 96 (Age: No Bar)

Solve these Clock puzzles: What should be the time in the last watches?



The Barbershop Twist

Activity 97
(Age: No Bar)

A traveler arrives in a small town and decides to get a haircut. There are only two barbershops in town - one on East Street and one on West Street. The East Street barbershop is a mess, and the barber has the worst haircut the traveler has ever seen. The West Street barbershop is neat and clean, its barber's hair looks as good as a movie star's. Which barbershop does the traveler go to for his haircut, and why?



Serial Killer

Activity 98
(Age: No Bar)



A serial killer kidnaps people and makes them take 1 of 2 pills. One is harmless while the other poisonous. Whichever pill a victim took, the serial killer took the other one. The victim took a pill with water and died, while the killer survived. How did the killer get the harmless pill?



Activity 99

(Age: No Bar)

More Mysteries to Solve

- a. A man owned a casino and invited some friends. It was a dark stormy night, and they all placed their money on the table right before the lights went out. When the lights came back on, the money was gone. The owner put a rooster in an old rusty tea kettle. He told everyone to get in line and touch the kettle after he turned the lights off, and the rooster will crow when the robber touched it. After everyone touched it, the rooster didn't crow, so the man told everyone to hold out their hands. After examining all the hands, he pointed out who the robber was. How did he know who stole the money?

- b. Once there was an evil wizard. He took 3 women from their homes and turned them into rose bushes that looked exactly alike. He put them in his garden. One of the women had a husband and children and begged the wizard to let her see them. He agreed. At night he brought the woman to her house. In the morning he came and took her home. Next day the husband decided to go rescue her. So he snuck into the wizard's garden. He looked and looked at the 3 identical rose bushes trying to figure out which could be his wife. Suddenly he knew the answer and he took his wife home. How did he know which rose bush was his wife?

- c. A young boy went to a Catholic school. During school he started goofing around, so the teacher called him out and sent him to the Pastor. Since this was a traditional school the boy would be spanked, but the Pastor believed in giving people a chance. He said, "If you can ask me a question about something you learned and I don't know the answer on the spot you will go free." The boy may have been lazy, but he was very witty. He asked, "What is it that you can see and I can see, usually every day, but God cannot see." The Pastor stood there, stumped. He couldn't figure it out because he strongly believed that God sees and knows all, and that there is only one God. The boy smiled and told him. What was it?

The Monkey and the Coconut

Activity 100
(Age: No Bar)

Ten people land on a deserted island. There they find lots of coconuts and a monkey. During their first day they gather coconuts and put them all in a community pile. After working all day they decide to sleep and divide them into ten equal piles the next morning.

That night one castaway wakes up hungry and decides to take his share early. After dividing up the coconuts he finds he is one coconut short of ten equal piles. He also notices the monkey holding one more coconut. So he tries to take the monkey's coconut to have a total evenly divisible by 10. However when he tries to take it the monkey conks him on the head with it and kills him.



Later another castaway wakes up hungry and decides to take his share early. On the way to the coconuts he finds the body of the first castaway, which pleases him because he will now be entitled to $\frac{1}{9}$ th of the total pile. After dividing them up into nine piles he is again one coconut short and tries to take the monkey's

slightly bloodied coconut. The monkey conks the second man on the head and kills him.

One by one each of the remaining castaways goes through the same process, until the 10th person to wake up gets the entire pile for himself. What is the smallest number of possible coconuts in the pile, not counting the monkeys?



Activity 23

The sum is 15.

2	9	4
7	5	3
6	1	8

The sum is 60.

32	4	24
12	20	28
16	36	8

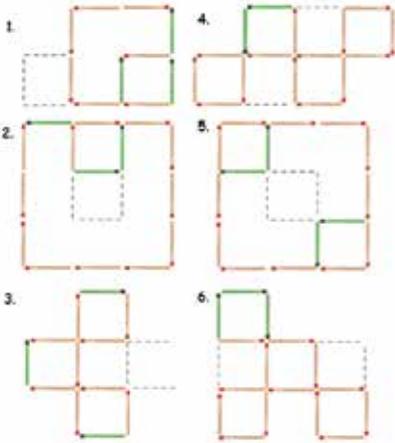
The sum is 30.

4	18	8
14	10	6
12	2	16

The sum is 60.

8	36	16
28	20	12
24	4	32

Activity 24



Activity 25

4. The answer comes from the number of circles in each four-digit number. For example, 6 has one circle, and 8 has 2 hence, 9999 is 4.

Activity 26

a.3, b.1, c.2, d.2, e.1, f.2, g.1, h.3

Activity 27

D	A	I	H	F	G	C	B	E
E	F	C	B	D	I	G	A	H
G	B	H	C	E	A	I	D	F
F	C	E	A	B	H	D	G	I
I	H	B	E	G	D	A	F	C
A	D	G	F	I	C	H	E	B
B	I	D	G	C	E	F	H	A
C	E	A	D	H	F	B	I	G
H	G	F	I	A	B	E	C	D

I	C	B	G	D	H	F	A	E
D	G	F	A	B	E	C	I	H
H	A	E	C	I	F	B	D	G
G	B	H	E	C	I	A	F	D
C	I	D	H	F	A	G	E	B
E	F	A	D	G	B	I	H	C
F	E	C	B	A	D	H	G	I
A	D	G	I	H	C	E	B	F
B	H	I	F	E	G	D	C	A

Activity 28

9	-	7	+	6	=	8
-		+		÷		
8	-	4	+	3	=	7
x		-		-		
5	÷	1	+	2	=	7
=5		=10		=0		

3	+	9	-	8	=	4
+		x		+		
5	-	1	+	4	=	8
-		-		-		
2	x	7	-	6	=	8
=6		=2		=6		

Activity 29

- An Egg
- Age
- He only sleeps at night
- Piano
- A glove
- Breath.
- A coat of paint.
- A yardstick.
- A river
- A sponge
- The word "wrong!"
- The library
- A window!
- An earthworm!
- Corn on the cob!

Activity 30

- Balloons with a multiple of 9: 18, 45, 54, 63 and 99
- Square number balloons. 4, 16, 25 and 64
- Prime number balloons. 3, 7, 13, and 17

Ans: 26



Activity 31

The answer is 27

Activity 32

Lucy is 37

Activity 33

6

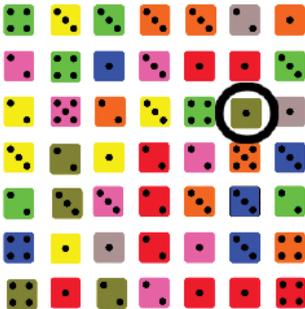
Activity 34

1, 2, and 3

Activity 35

A Decimal Point

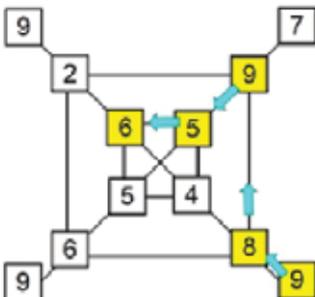
Activity 36



Activity 37

The route shown gives a total of 37.

Can you find an even bigger total? There is at least one way to get 39!



Activity 38

Lots of answers to this - here are just four. It seems the 0 must always be in the middle. How many more can you find?

-3	2	1
4	0	-4
-1	-2	3

-1	-2	3
4	0	-4
-3	2	1

1	-4	3
2	0	-2
-3	4	-1

or

3	-4	1
-2	0	2
-1	4	-3

Activity 39

Conned, Honour, Lobbed, Loving, Manner, Margin, Versed.

Activity 40

General, Print, Combine, Handle, Portion, Edge

Activity 41

H	Heart	Tear	Ear	T
I	Pirate	Taper	Pert	A
N	Namely	Mealy	Yale	M
D	Drain	Rain	Ran	I
I	Soiled	Doles	Dose	L

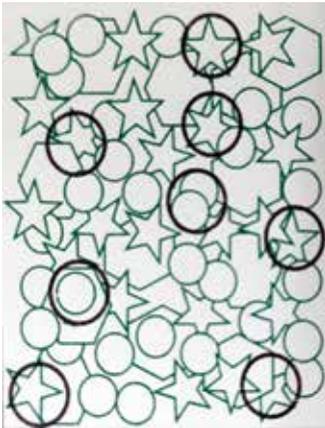


Activity 42

ALL THE WORLD'S A STAGE, AND
ALL THE MEN AND WOMEN MERELY
PLAYERS; THEY HAVE THEIR EXITS
AND THEIR ENTRANCES; AND ONE
MAN IN HIS TIME PLAYS MANY
PARTS; HIS ACTS BEING SEVEN
AGES.

AS YOU LIKE IT

Activity 43



Activity 44

Three of Hearts. In each row the average of three cards to the left equals the value of the card to the right. There is one card from each suit on every row.

Activity 45

D
The numbers in the top and bottom rows are divisible by three, and those in the middle rows are divisible by seven. This is true to set D.

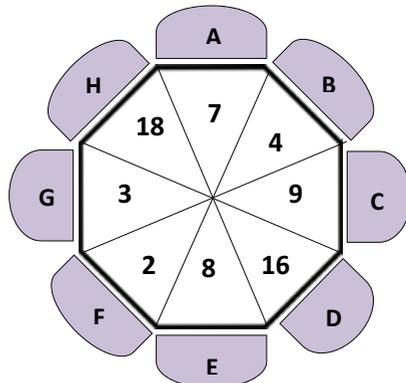
Activity 46

1	6	3	8	9	5	7	4	2
8	7	9	4	6	2	5	3	1
2	4	5	7	1	3	8	6	9
9	2	6	5	8	7	3	1	4
7	5	4	2	3	1	6	9	8
3	1	8	9	4	6	2	5	7
4	9	7	3	5	8	1	2	6
6	3	2	1	7	9	4	8	5
5	8	1	6	2	4	9	7	3

Activity 47

1	6	5	2	3	4
2	1	4	5	6	3
3	4	1	6	5	2
4	3	6	1	2	5
5	2	3	4	1	6
6	5	2	3	4	1

Activity 48





Activity 49

From 1, the name of the judge's wife has a "product" of $10 \times 21 \times 4 \times 7 \times 5$

From 2, her name has no G (7) or U (21); so it has N(14) twice. Division by 14 twice leaves $10 \times 3 \times 5$

From 2, her name has no E (5) or J (10). It cannot have a T (20). It cannot have an I (15); otherwise it would have an E (5) or a J (10). So her name has a Y (25). Division by 25 leaves 2×3

From 3, her name has an F (6). Division by 6 leaves 1

In alphabet order the letters found so far are FNNY and the only other letter her name may contain is A (1).

From 4, the name of the judge's wife is Fanny.

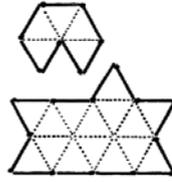
Activity 50

35	3	22	56	18	17	27	75	14
70	27	65	70	76	92	93	62	56
42	77	76	84	91	14	35	55	84
44	84	88	90	60	15	42	44	91
9	34	29	44	71	8	7	31	35
87	14	63	84	77	28	98	26	63
85	91	36	58	22	89	99	10	7
39	42	28	56	91	34	20	69	85
27	13	43	57	98	16	56	41	28

Activity 51

If the staircase were such that each man would reach the top in a certain number of full leaps, without taking a reduced number at his last leap, the smallest possible number of steps would, of course, be 60 (that is, $3 \times 4 \times 5$). But the sketch showed us that A. taking three steps at a leap, has one odd step at the end; B. taking four at a leap, will have three only at the end; and C. taking five at a leap, will have four only at the finish. Therefore, we have to find the smallest number that, when divided by 3, leaves a remainder 1, when divided by 4 leaves 3, and when divided by 5 leaves a remainder 4. This number is 19. So there were 19 steps in all, only 4 being left out in the sketch.

Activity 52



The illustration shows how two enclosures may be formed with 13 and 7 matches respectively, so that one area shall be exactly three times as large as the other, for one contains five of those little equilateral triangles, and the other fifteen.

There are other solutions.

Activity 53

To open a link and join it again will cost 3\$. By opening one link at the end of each of the thirteen pieces the cost will be 39\$, so it would be cheaper than that to buy a new chain. If there happened to be a piece of twelve links, all these twelve could be opened to join the remaining twelve pieces at a cost also of 36\$. If there had happened to be two pieces together, containing eleven links, all these could be opened to join the remaining eleven pieces at a cost of 33\$.

The best that can be done is to open three pieces containing together ten links to join the remaining ten pieces at a cost of 30\$. This is possible if we break up the piece of four links and two pieces of three links. Thus, if we include the piece of three links that was shown in the middle row as one of the three link pieces, we shall get altogether five large links and five small ones.

If we had been able to find four pieces containing together nine links we should save another 3\$, but this is not possible, nor can we find five pieces containing together eight links, and so on, therefore the correct answer is as stated, 30\$.

Activity 54

100
 330
 505
 077
 099

 1,111



Activity 67



Rug, Window, Brain, Lamp

Activity 68

There are forty-two different arrangements. The positions of 1 and 9 are fixed. Always place the 2 beneath the 1. Then, if the 3 be beneath the 2 there are five arrangements. If the 3 be to the right of 1 there are five arrangements with 4 under the 2, five with 5 under the 2, four with 6 under 2, two with 7 under 2. We have thus twenty-one arrangements in all. But the 2 might have been always to the right of 1, instead of beneath, and then we get twenty-one reversed and reflected arrangements (practically similar), making forty-two in all. 4, 5, or 6 must always be in the center.

Activity 69



Activity 70

Let's say F8 -> Flower with 8 petals

Then from first equation $3 * F8 = 24 \Rightarrow F8 = 24 / 3 = 8$

F1 = 1

From second equation

$2\text{Teddy} + F6 = 26 \Rightarrow 2\text{Teddy} = 20 \Rightarrow \text{Teddy} = 10$

From third equation

$\text{Ribbon} + \text{Teddy} + F8 = 21 \Rightarrow \text{Ribbon} = 21 - 8 - 10 \Rightarrow \text{Ribbon} = 3$

Now the fourth equation

$2\text{Ribbon} + (\text{Teddy} + F6) * (\text{Teddy} - \text{Ribbon}) = 2 * 3 + (10 + 6) * (10 - 3)$

*don't forget Teddy without ribbon

As multiplication have higher precedence

$6 + 16 * 7 \Rightarrow 6 + 112 \Rightarrow 118$

Activity 71

Beer will first go in glass 1 and before it gets full, it will go to glass 3.

From glass 3 it will not flow to glass 7 (as it is blocked), same way it will try to flow to glass 6 but the opening to glass 6 is blocked, thus it will first fill glass 3 fully.

Activity 72

1. Batatawada 2. Samosa 3. Bread pakoda
4. Frankie 5. Ragada patties 6. Pani puri
7. Nachos 8. Bread omelette 9. Veg biryani
10. Kabab 11. Corn chaat 12. Sweet corn soup
13. Tandoori chicken

Activity 73

OSCILLATE; FLUCTUATE

Activity 74

- a. B - So that each connected straight line of three circles contains one each of the three different types of star.
- b. C - A line is added at the top and bottom alternately



Activity 75

- a. They suspect the newspaper boy, as Tuesday's and Wednesday's newspapers, were missing.
- b. If it was a suicide and she had jumped out of the window then how come all the windows were closed.
- c. If the person died then who pressed the reverse button
- d. The numbers correspond to atomic numbers on the periodic table of elements: 'Fe-Li-Ce/Ni-Co-La-S'. Therefore, the name of the suspects was Felice and Nicolas.

Activity 76

It is 17 mins.

1 and 2 go first, then 1 comes back. Then 7 and 10 go and 2 comes back. Then 1 and 2 go again, it makes a total of 17 minutes.

Activity 77

7 Minutes Sand Timer Finished.

Time Remaining in 11 minutes timer – 4 minutes

Reversing the 7 minutes timer – 4 minutes will elapse. 3 Minutes will left.

Once 11 minutes gets over reverse the 11 minutes timer again to use that 3 minutes. 8 Minutes left.

Now Reverse 7 minutes timer to measure $7+8 = 15$ minutes.

Activity 78

You can figure out that for any given door, say door #38, you will visit it for every divisor it has. So has 1 & 38, 2 & 19. So on pass 1 I will open the door, pass 2 I will close it, pass 19 open, pass 38 close. For every pair of divisors the door will just end up back in its initial state. So you might think that every door will end up closed? Well what about door #9. 9 has the divisors 1 & 9, 3 & 3. But 3 is repeated because 9 is a perfect square, so you will only visit door #9, on pass 1, 3, and 9... leaving it open at the end. Only perfect square doors will be open at the end.

Activity 79

- a. They were two of a set of triplets (or quadruplets etc.)
- b. The man had hiccups. The barman recognised this from his speech and drew the gun in order to give him a shock. It worked and cured the hiccups – so the man no longer needed the water.
- c. The man had jumped from a plane but his parachute had failed to open. It is the unopened package.
- d. The blind beggar was the sister of her brother who died.
- e. The man's horse was called Friday.
- f. The poison in the punch came from the ice cubes. When the man drank the punch the ice was fully frozen. Gradually it melted, poisoning the punch.

Activity 80

B	R	E	A	D		S	U	B	J	E	C	T
A		G		E	I			Y		A		R
C	I	R	C	U	I	T			E	X	T	R
O		E		C		E				E		D
N	U	T	M	E	G		C	H	A	N	G	E
	N		O				Y	O	U		U	I
A	T	T	E	N	T	I	O	N	S	P	A	N
R		E		I	A	N		A		R		
C	O	M	I	N	G		A	T	O	M	I	C
A		P					U		R		O	A
D	R	I	N	K			S	L	E	E	V	E
E		N		I		E		E		I		E
S	I	G	H	T	E	D			S	H	E	E

Activity 81





Activity 82

a. First, arrange the bottles on shelf and now take, 1 pill from the first bottle, 2 pills from the second bottle, 3 pills from the third bottle, and so on. Ideally you would have $(10) \times (11) / 2 = 55$ pills weighing 55 grams, when you put the entire pile of pills on the weighing scale. The deviation from 55 g would tell you which bottle contains the heavy pills. If it is .1 gram more, it is 1st bottle which has heavy pill, if it is .2 more, gram 2nd bottle has heavy pills, if it is .3 more, gram 3rd bottle has heavy pills.

b. Send the box with the lock to B. B can't open it, but can put another lock on the box. B sends this box with the 2 locks back to A, A unlock his lock and send it back to B again. So there is just B's lock on the box and B can now open it.

c. 2 Cakes. At each bridge you are required to give half of your cakes, and you receive one back, which leaves you with 2 cakes after every bridge.

Activity 83

a. Only 23 people need be in the room. The probability that there will not be two matching birthdays is then, ignoring leap years, $365 \times 364 \times 363 \times \dots \times 343 / 365$ over 23 which is approximately 0.493. This is less than half, and therefore the probability that a pair occurs is greater than 50-50. With as few as fourteen people in the room the chances are better than 50-50 that a pair will have birthdays on the same day or on consecutive days.

b. 4

c. Father-mother-father - To beat two games in a row, it is necessary to win the second game. This means that it would be to his advantage to play the second game against the weaker player. Though he plays his father twice, he has a higher chance of winning by playing his mother second.

d. If you took out 2 pearls, you would have about a 50% chance of getting 2 coins. However, you can take even more pearls and still retain the 50% chance. Take out 1001 pearls. If the remaining pearl is white, then you've won 1001 coins!

Activity 84

The trick to this puzzle is that you can keep wolf and cabbage together. So the solution would be, the sailor will start with the goat. He will go to the other side of the river with the goat. He will keep goat there and will return back and will take cabbage with him on the next turn. When he reaches the other side he will keep the cabbage there and will take goat back with him. Now we will take wolf and will keep the wolf at the other side of the river along with the cabbage. He will return back and will take goat along with him. This way they all will cross the river.

Activity 85

In evaluation of the problem, there is no limit on the number of times that a prisoner can go into the cell, however the prisoners need a way to communicate with each other on who when into the cell. Therefore one person is chosen as the counter. Every time any prisoner is selected other than counter person, they follow these steps. If they have never turned on the light bulb before and the light bulb is off, they turn it on. If not, they don't do anything (simple as that). Now if Counter person is selected and the light bulb is already on, he adds one to his count and turns off the bulb. If the bulb is off, he just sits and does nothing. The day his count reaches 99, he calls the warden and tells him "Every prisoner has been in the special room at least once".



Activity 86

a. Difference of numbers in first two pentagons is in third pentagon at same location, difference of

$$2, 5 = 3$$

$$4, 5 = 1$$

$$7, 9 = 2$$

$$6, 11 = 5$$

$$1, 10 = 9$$

So, answer is 10.

b. Multiply first two numbers in each row and subtract first number from the product to get third number in that row.

$$(2 \times 11) - 2 = 20$$

$$(4 \times 9) - 4 = 32$$

$$(7 \times 8) - 7 = 49$$

$$(4 \times 10) - 4 = 36$$

So, answer is 36.

c. Calculate the difference of numbers in each row. It follows a particular sequence like

$$5, 4, 3, 2, 1.$$

$$8 - 2 = 6$$

$$9 - 4 = 5$$

$$7 - 3 = 4$$

$$9 - 6 = 3$$

$$8 - 6 = 2$$

$$4 - 3 = 1$$

So, answer is 4

Activity 87

In each box, sum of numbers in first column divided by sum of numbers in third column gives middle number in second column.

$$(5+11) \div (4+4) = 2$$

$$(7+13) \div (1+3) = 5$$

$$(12+20) \div (4+4) = 4$$

So, answer is 12.

Activity 88

Answer is 68

In each circle, divide the difference between the top right hand number and bottom number by 4 to give the top left hand value

$$\text{In first circle, } 93 - 17 = 76 / 4 = 19$$

$$\text{in last circle, } 68 - 24 = 44 / 4 = 11$$

Activity 89

1. W

Starting at the top left and moving down, then right one column and up etc in a snakes and ladders pattern, letters move through the alphabet 4 letters at a time.

Activity 90

4, each row of the grid contains each of the 10 digits, 0 to 9, written in a random order.

Activity 91

4, this is an alternating series. The first and third segments are repeated. The second segment is simply upside down.

Activity 92

6 - The number in the centre of each star equals the average of the surrounding 5 numbers.

Activity 93





Activity 94

Jack of Spades

There are 2 sequences in the grid - one determining the value of the card, and one determining the suit of the card. Starting on the top left and moving right, then down one row and to the left, then down the final row and to the right, cards are arranged in order, with their value increasing by 4 each time. To calculate the suit of each card, start on the top left and move down, then right one row and move up etc. cards are arranged in the order Hearts, Clubs, Diamonds, Spades.



Activity 95

3	6	8	2	7	5	4	1	9
2	1	5	9	4	3	6	7	8
7	4	9	1	6	8	3	5	2
9	7	1	6	3	4	8	2	5
4	5	2	7	8	1	9	6	3
6	8	3	5	2	9	7	4	1
5	3	7	4	9	2	1	8	6
8	2	4	3	1	6	5	9	7
1	9	6	8	5	7	2	3	4

Activity 96

- 8:00 - On each watch, the sum of the digits shown equals 8.
- 3:36 - On each watch, the time shown contains two digits that are the same.

Activity 97

The traveler goes to have his hair cut at the barbershop on East Street. He figures that since there are only two barbershops in town the East Street barber must have his hair cut by the West Street barber and vice versa. So if the traveler wants to look as good as the West Street barber (the one with the good haircut), he'd better go to the man who cuts the West Street barber's hair - the East Street barber. By the way, the reason the West Street barbershop is so clean and neat is that it seldom gets customers.

Activity 98

Both the pills were harmless. Poison was in the glass of water

Activity 99

- Because the tea kettle was rusty, whoever touched it would have rust on their hands. The robber didn't touch the kettle therefore he was the only one whose hands weren't rusty.
- The wizard brought the rosebush to her home at night and returned her to the garden in the morning. Therefore, she was the only plant without dew.
- His own equal! We see our equals every day, but since there is one God, he cannot see someone equal to himself.

Activity 100

2519

The solution for the answer is the LCM (Lowest Common Multiple) of 10,9,8,7,6,5,4,3,2,1 -1. LCM would give the least number which is divisible by all of these number and subtracting one would give us the number of coconuts which were initially there.

Contest 1

Doodle Art

Create a Doodle of a name. A simple example how to draw name Doodles is given for your reference. (Age 18+)

How to Doodle your Name

1. Write your name in pencil, with lots of space in between letters.



2. Draw block letters around the stick letters.

3. Add an even outline around the block letters.



4. Draw some bubbles attached.

5. Fill in with more bubbles until the art looks balanced.



6. Add round lines. Color name with warm or cool colors, and the back the opposite.

Contest 2

CoviClick

Open to employees of Sanmar

It's been a year since the pandemic hit us; we have made different changes in our lives, for example wearing face mask every day, hand hygiene etc. Click a picture of what you find is the outcome of this pandemic. Only one entry allowed per participant.



Rush your entries to

scribbles@sanmargroup.com

All entries should be submitted on or before **31 May 2021**

Colour using Crayons/colour pencil only (Age 8-12)

Contest 3



Colour using poster colours only (Age 13-16)





Sanmartini Shots

A cocktail of explosive games

ROUND 2



One of the feedbacks received at the recent 'Sanmar Ethics Refreshers Session' was to have posters displayed at key places in Sanmar across locations reiterating the Ethics philosophy of the Group.

Picture speaks louder than words and hence this OPEN POSTER COMPETITION

- Pick any one aspect or phrase out of the Sanmar Ethics Philosophy, and make a poster on it
- This is part of Sanmartini 2021 competitions - Round 2
- Five best entries will receive 50 points for their Sanmartini team

Rules:

- It can be a team or individual entry. If team maximum number of participants per team – 2
- Each participant/ team can submit any number of posters
- Participant can use only white chart paper for poster making
- Standard chart paper size to be used (A3 size)
- Acceptable tools for drawing/painting include pencil, crayon, watercolor, oil paint, etc. It should be an original production
- The topic chosen must be mentioned on the poster
- The poster must have the name of the Sanmartini team and the participant/ team members' names

All entries should be submitted
to scribbles@sanmargroup.com
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