

Volume No. 11

May - June 2020

Issue No. 3

## From the Editor's desk...

*Dear colleagues and families,*

Trust you are taking good care of yourselves. This year's issue of Scribbles Summer Special is a bumper issue, with 105 activities outlined for people of all ages. We thought we'll pack more into it, since many family members will have many interesting challenges to solve, especially since the school/ college going children are at home.

Please continue to take all precautions that are outlined at both home and at work.

Wish you good health. Hope you find this issue timely, interesting and engaging.

*Best wishes.*

Ananda Jagannathan

**Book of Puzzles**

Unwind with these puzzles and engage your mind as you spend this time at home.

## Dot 2 Dot

**Activity 1**  
(Age: 3 - 7)

Join the dots and colour.



## Fun Counting

**Activity 2**  
(Age: 3 - 7)

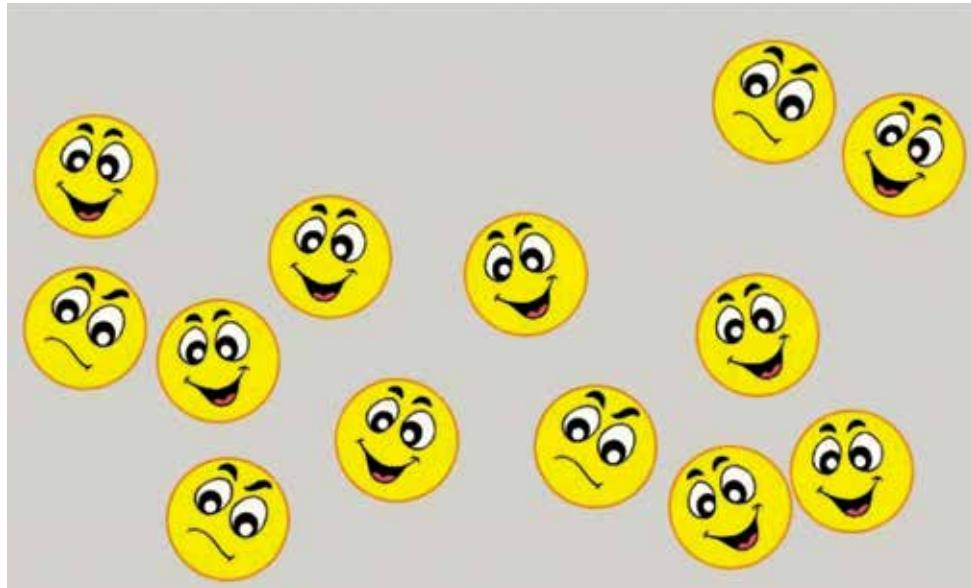
Count the dots on the dice and match with the numbers.



## Emoticons

**Activity 3**  
(Age: 3 - 7)

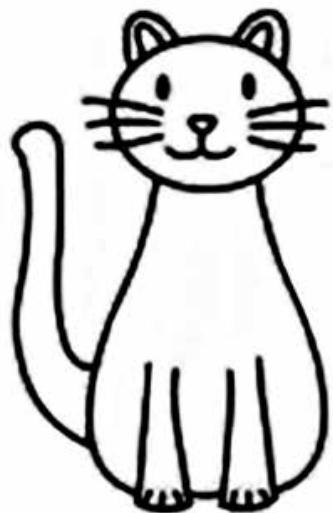
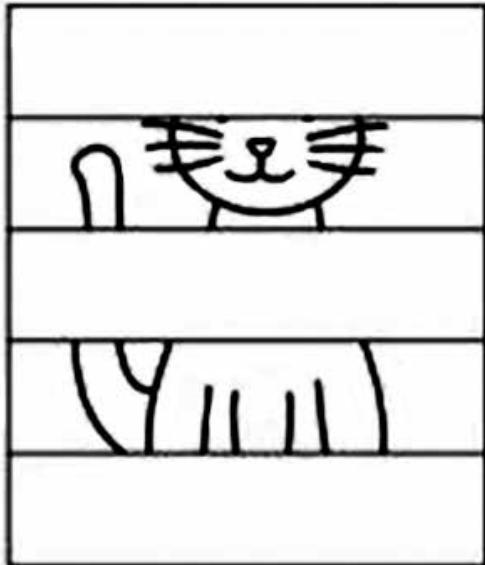
Circle the angry emoticons.



## Get it Right

**Activity 4**  
(Age: 3 - 7)

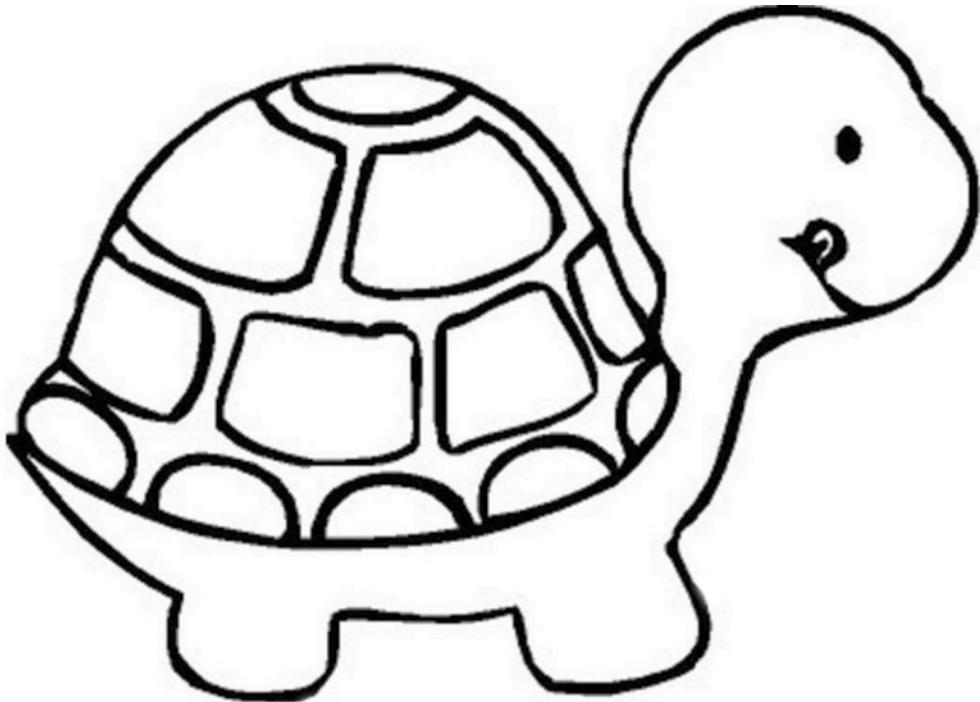
Complete the picture by looking at the picture on the right.



## Tortoise in colour

**Activity 5**  
(Age: 3 - 7)

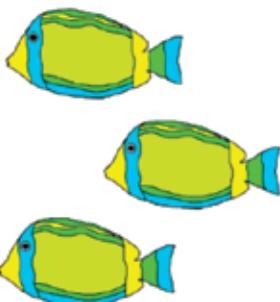
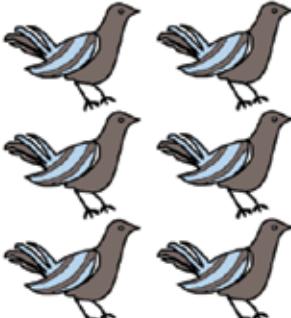
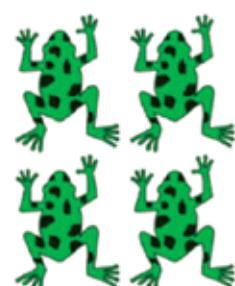
Use your imagination and make the tortoise colourful.



## How many do you see?

**Activity 6**  
(Age: 3 - 7)

Count the number of animals/ birds/ insects in each box.

1	2	3	4	5	6
					
					

## Fuel up

**Activity 7**  
(Age: 3 - 7)

Can you tell which scooter will reach the petrol bunk?

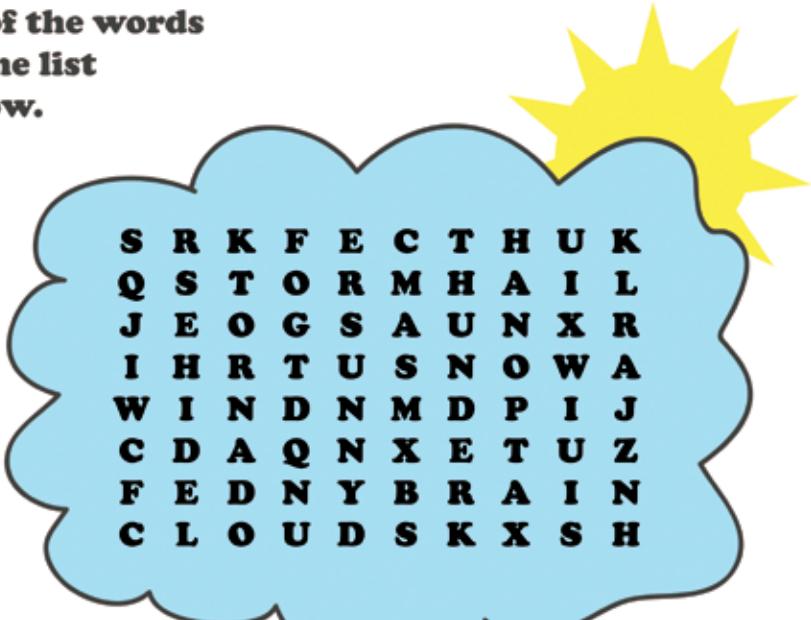


Keep an eye on the skies

Activity 8  
(Age: 3 - 7)

# Weather Word Search

Find and circle  
all of the words  
in the list  
below.



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

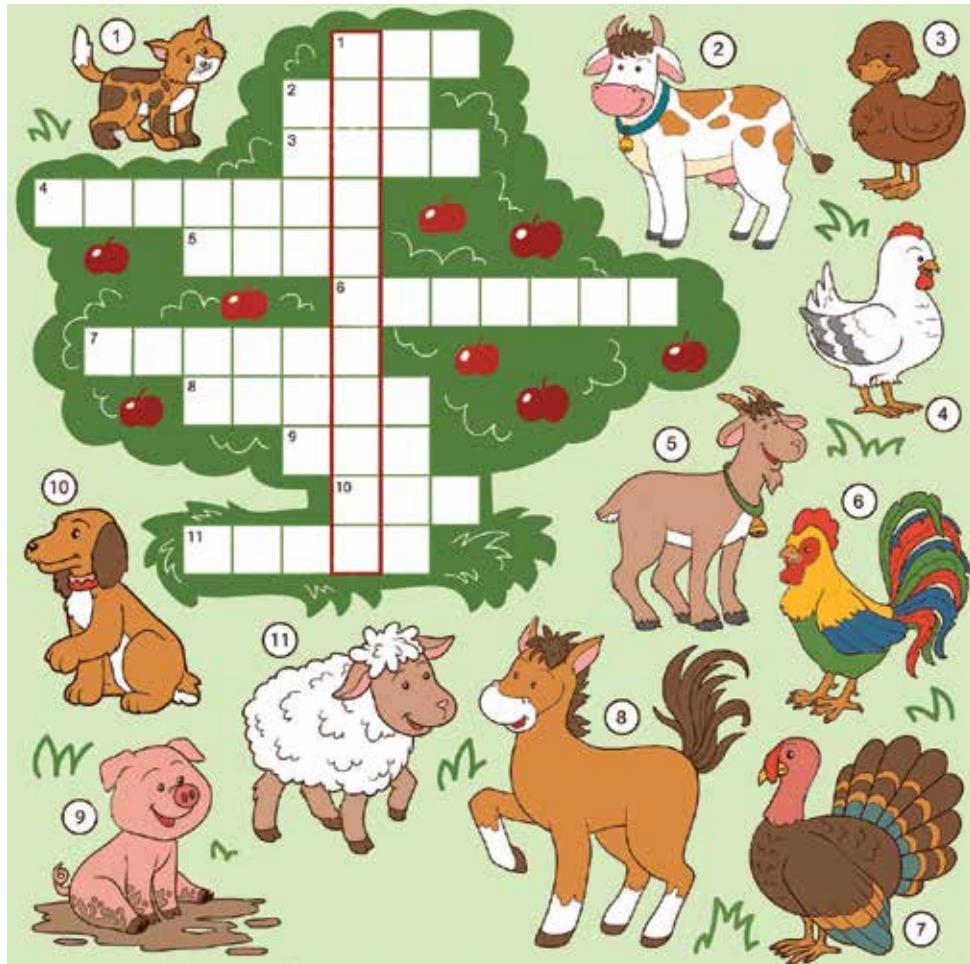
**SUNNY**  
**RAIN**  
**CLOUDS**  
**SNOW**  
**STORM**



**HAIL**  
**FOG**  
**THUNDER**  
**WIND**  
**TORNADO**

## Animal Crossword

**Activity 9**  
(Age: 3 - 7)



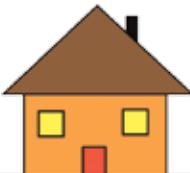
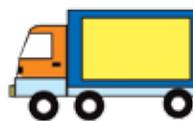
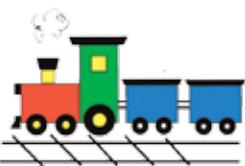
Complete the crossword based on the picture clues.

## Odd man out

Activity 10  
(Age: 3 - 7)

## Sound it Out

Say each word. Listen to how it sounds. One word sounds different from the others in each row. Can you find it?



## Math crossword

Activity 11  
(Age: 3 - 7)

# MATH

## Crossword Puzzle

Fill in the blanks of each crossword puzzle to make the multiplication equations true.



$$\begin{array}{|c|c|c|c|=|c|} \hline 2 & x & & = & 6 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & & & x \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & x & 1 & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & & & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & x & 24 & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & & 5 & = 30 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline x & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline 8 & x & 4 & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline = & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & x & 7 & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline x & & & x \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline 11 & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline 5 & x & & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline = & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline 22 & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline 3 & x & 12 & = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline x & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline = & & & \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|=|c|} \hline & x & & = 90 \\ \hline \end{array}$$

## Word Search - Shapes

Activity 12  
(Age: 3 - 7)

Find all the shape names given below:

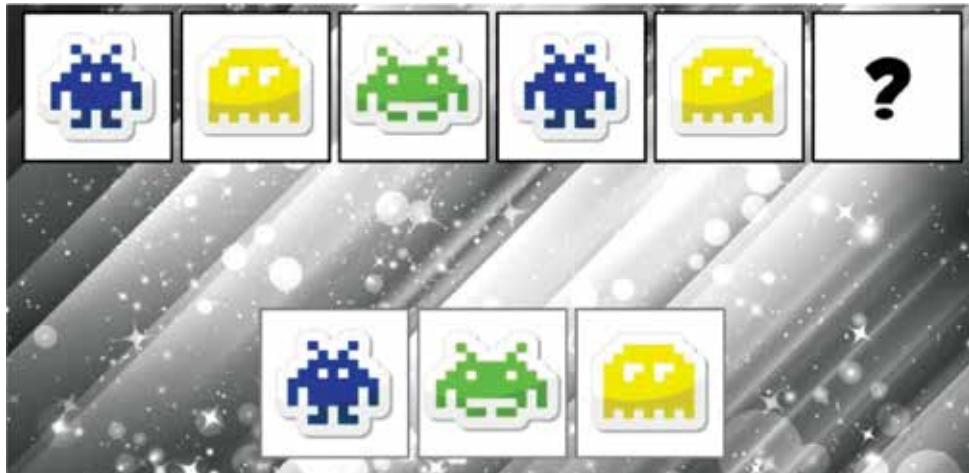
English

square  
triangle  
star  
pentagonparallelogram  
rhombus  
linecircle  
trapezoid  
oval  
rectangle

## Packman

**Activity 13**  
(Age: 5 - 8)

Complete the pattern.



## Unscramble

**Activity 14**  
(Age: 5 - 8)

Unscramble the words to identify the name of each animal/ bird/ insect.



naagiu



ckbal rebostl



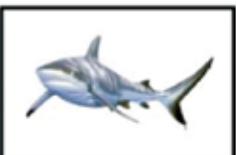
cuptoos



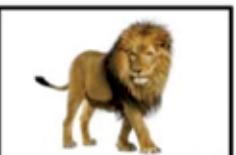
etrnpah



sttreiooo



krash



nilo



leega



tlilpaaerrc



plonidh



xfo

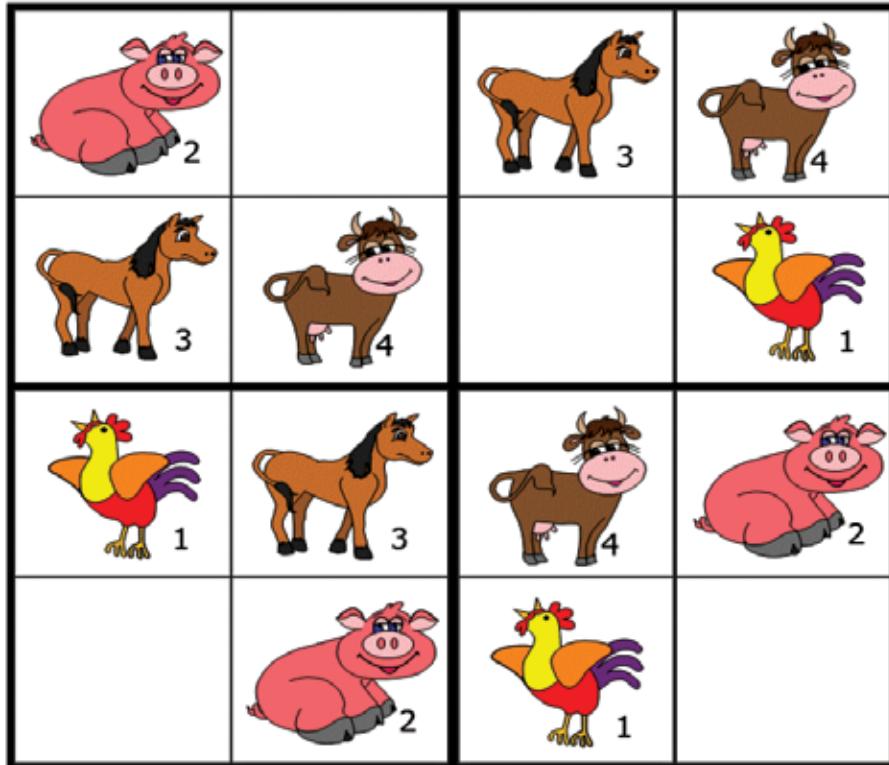


pnoocirs

## Animal Sudoku

Activity 15  
(Age: 5 - 8)

# On the Farm Sudoku



Each row, each column and each of the large four squares should have one of each image. Fill in the blanks!



## Shape series

**Activity 16**  
(Age: 5 - 8)

What will replace the question mark?



**A**

**B**

**C**

**D**

## Weigh me

**Activity 17**  
(Age: 5 - 8)

What is the weight of each animal?

$$\text{Bear} + \text{Bear} = 120 \text{ Kg}$$

$$\text{Rabbit} + \text{Bear} = 70 \text{ Kg}$$

$$\text{Bear} + \text{Fox} + \text{Rabbit} = 90 \text{ Kg}$$

## Spot them all

**Activity 18**  
(Age: 5 - 8)

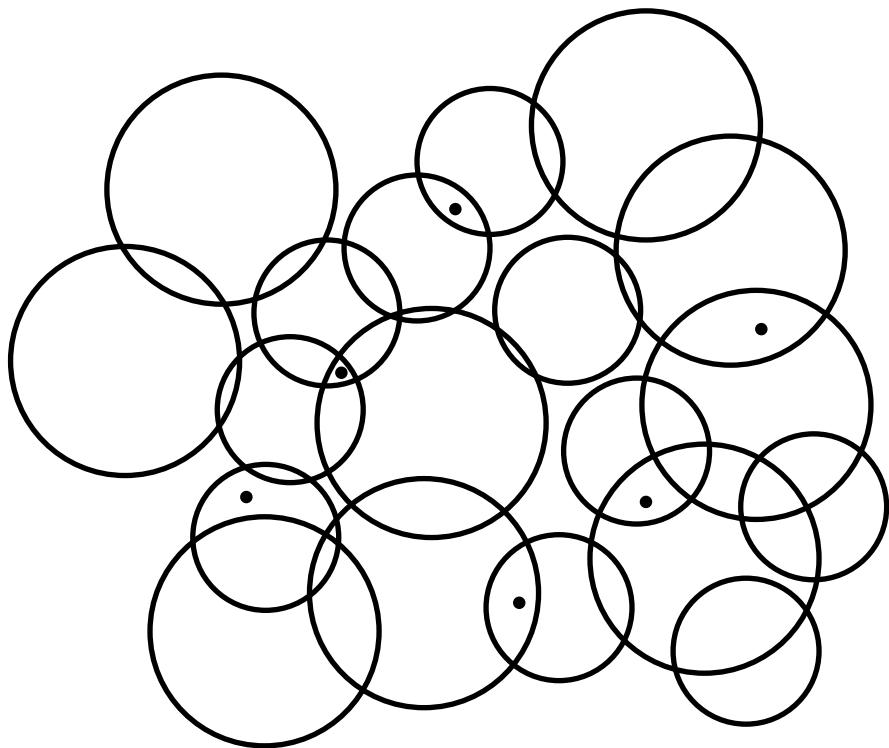
How many numbers do you see here?

6  
8  
2  
4

## Intersections

**Activity 19**  
(Age: 5 - 8)

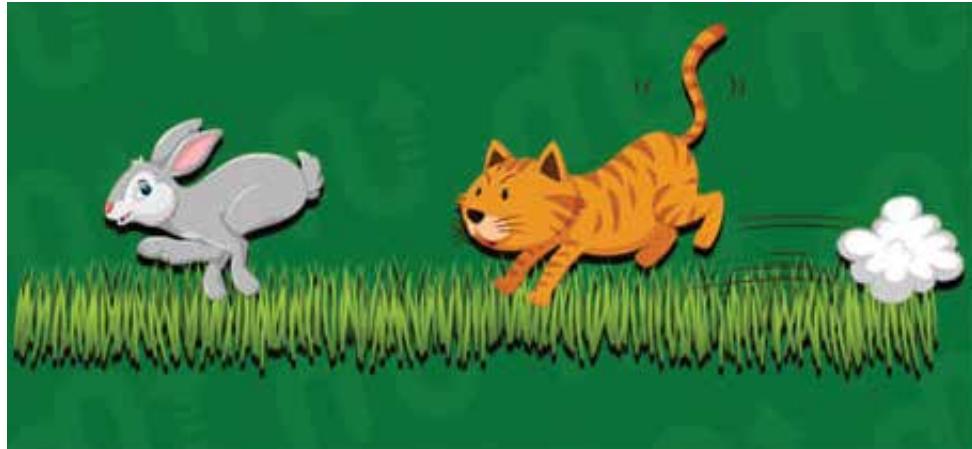
Can you count the number of circles that contain a black dot?



## How long?

**Activity 20**  
(Age: 5 - 8)

If 3 cats can catch 3 bunnies in 3 minutes, how long will it take 100 cats to catch 100 bunnies?



## Big family

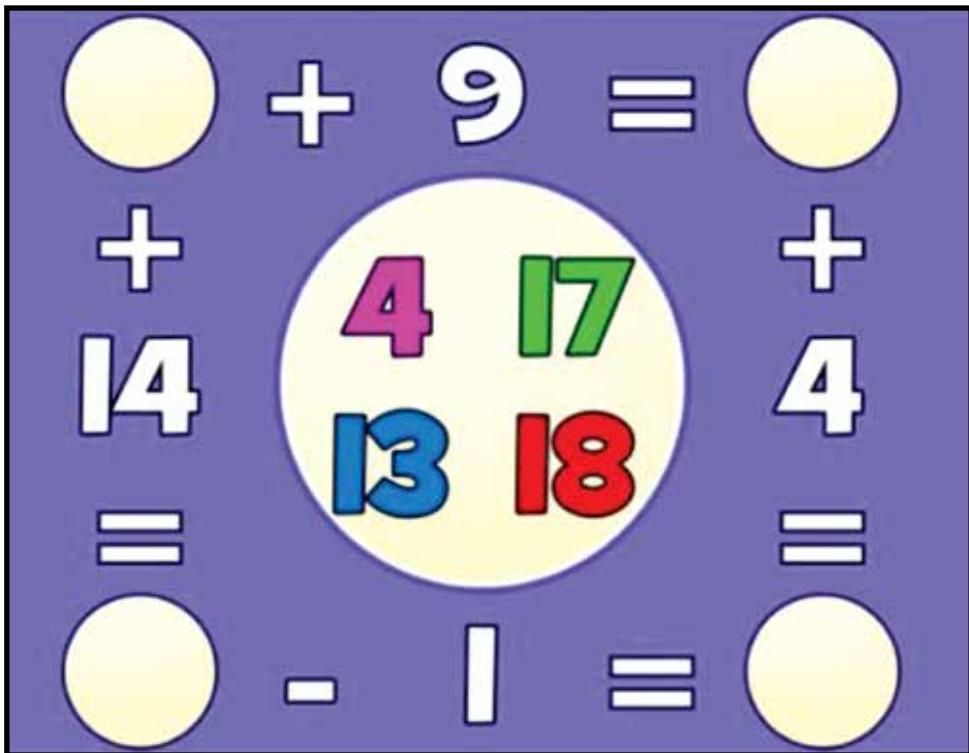
**Activity 21**  
(Age: 5 - 8)

Your parents have six sons including you and each son has one sister. How many people are there in your family?

## Square trouble

Activity 22  
(Age: 8+)

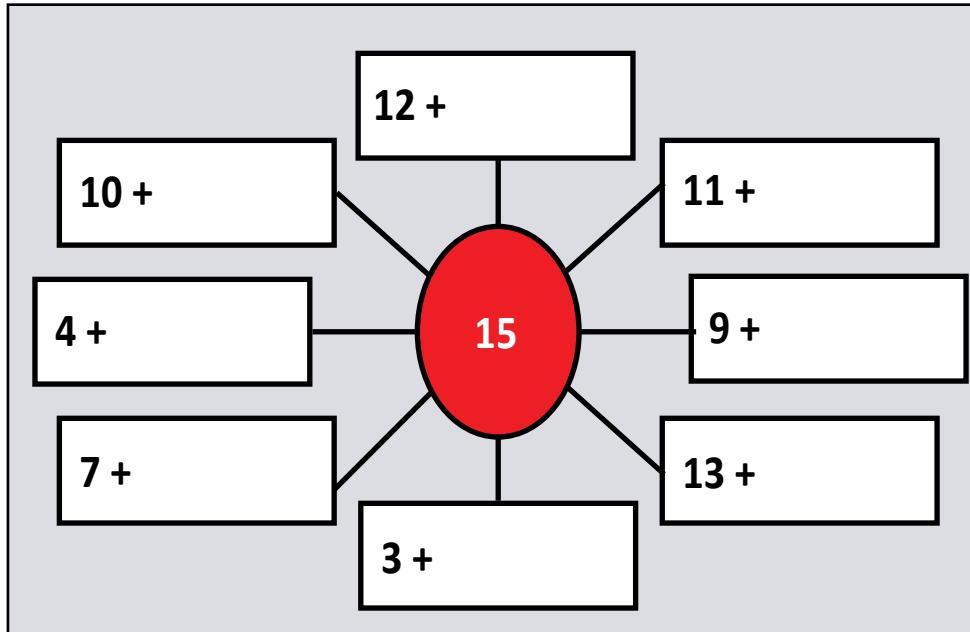
Enter the numbers from the centre into the correct circle.



## Spider math

**Activity 23**  
(Age: 8+)

Write the correct number in each rectangle which would sum up to the number in the circle.



## Word search - Baby animals

Activity 24  
(Age: 8+)

Find the baby animal names given below.



PUPPY

FOAL

SPIDERLING

KITTEN

CHICK

TADPOLE

CALF

FRY

LAMB

PIGLET

FAWN

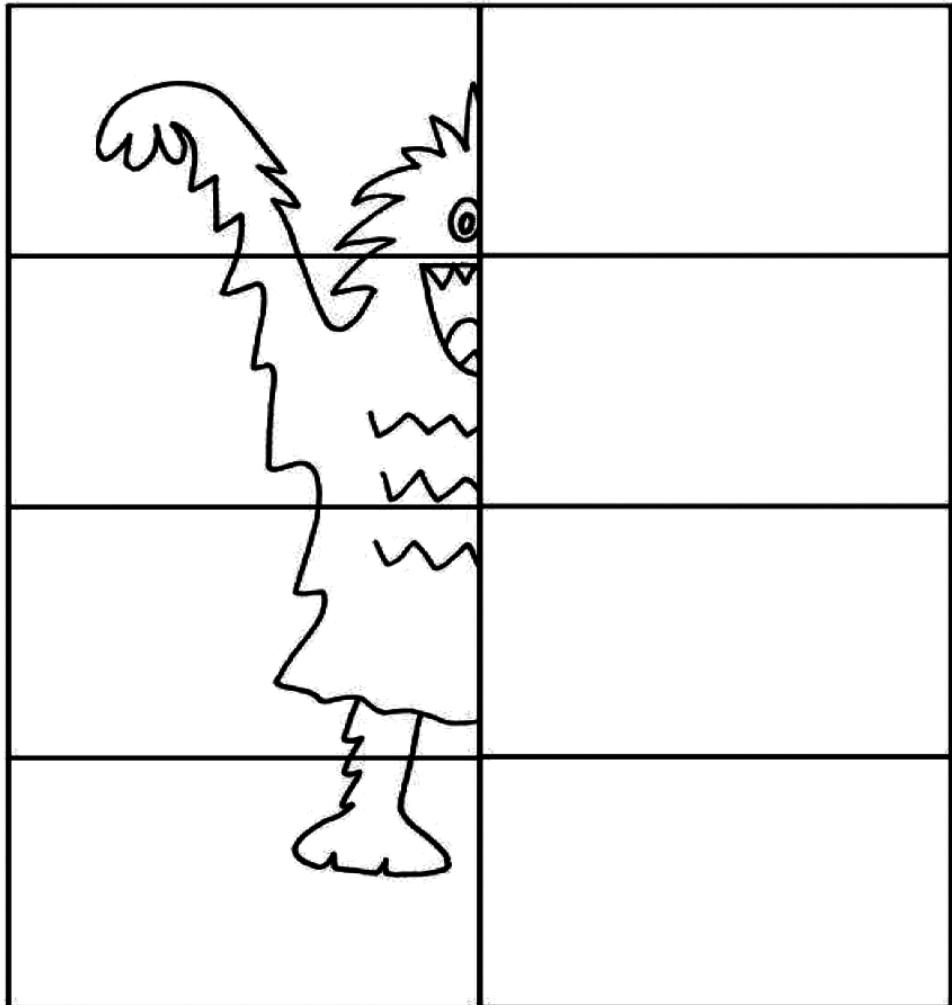
CUB

Clues may run forwards, backwards, diagonally, up or down. Some may overlap or even be backwards!

## Monster symmetry

**Activity 25**  
(Age: 8+)

Complete the picture symmetrically and colour.

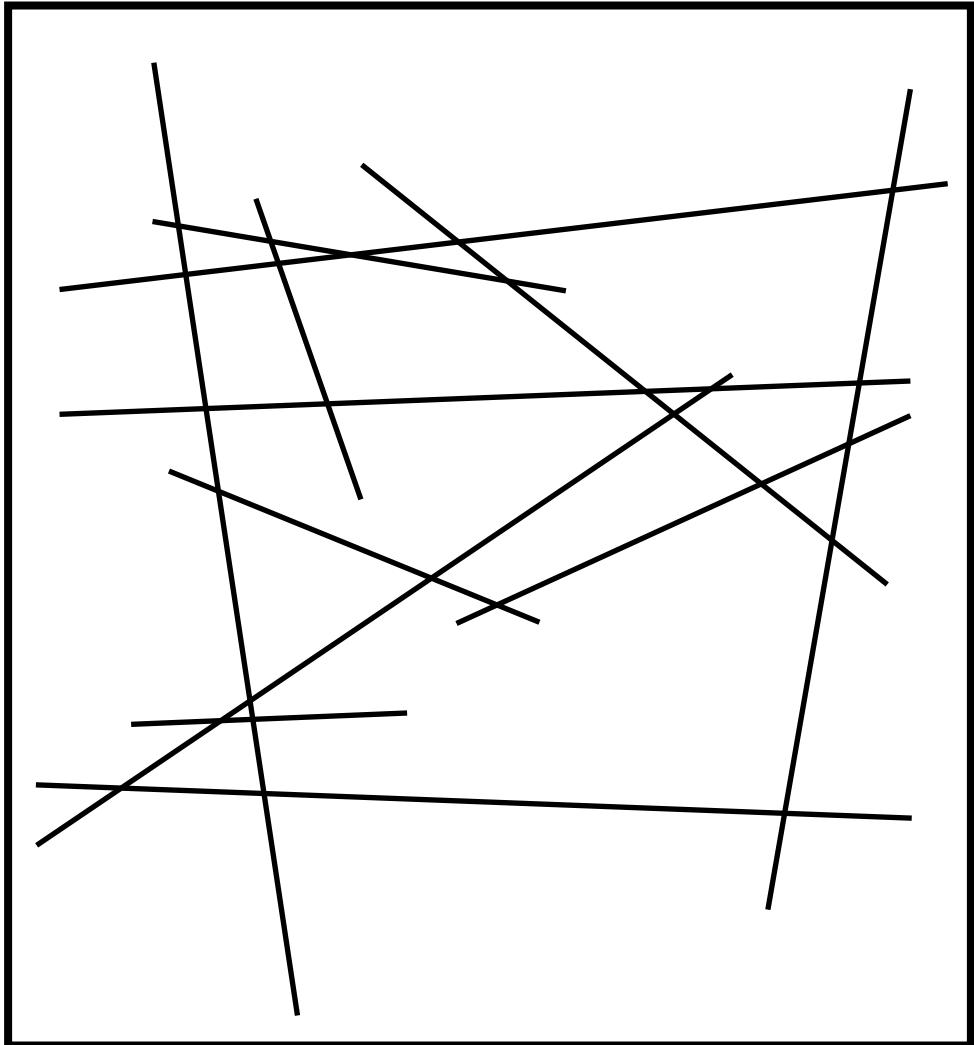


## Line number

## Activity 26

(Age: 8+)

Count the number of lines in the box below.



## Alpha calculation

**Activity 27**  
(Age: 10+)

What number should replace the question mark?

$$A + B = 76$$

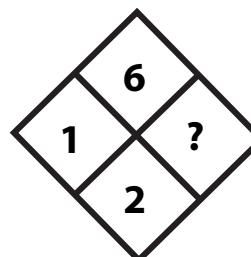
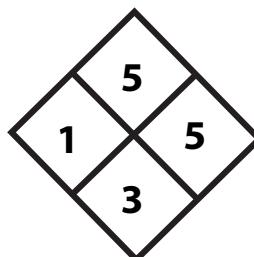
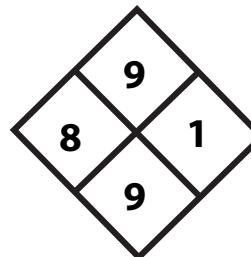
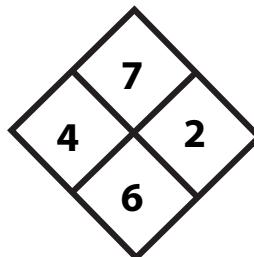
$$A - B = 38$$

$$A \div B = ?$$

## Square we go

**Activity 28**  
(Age: 10+)

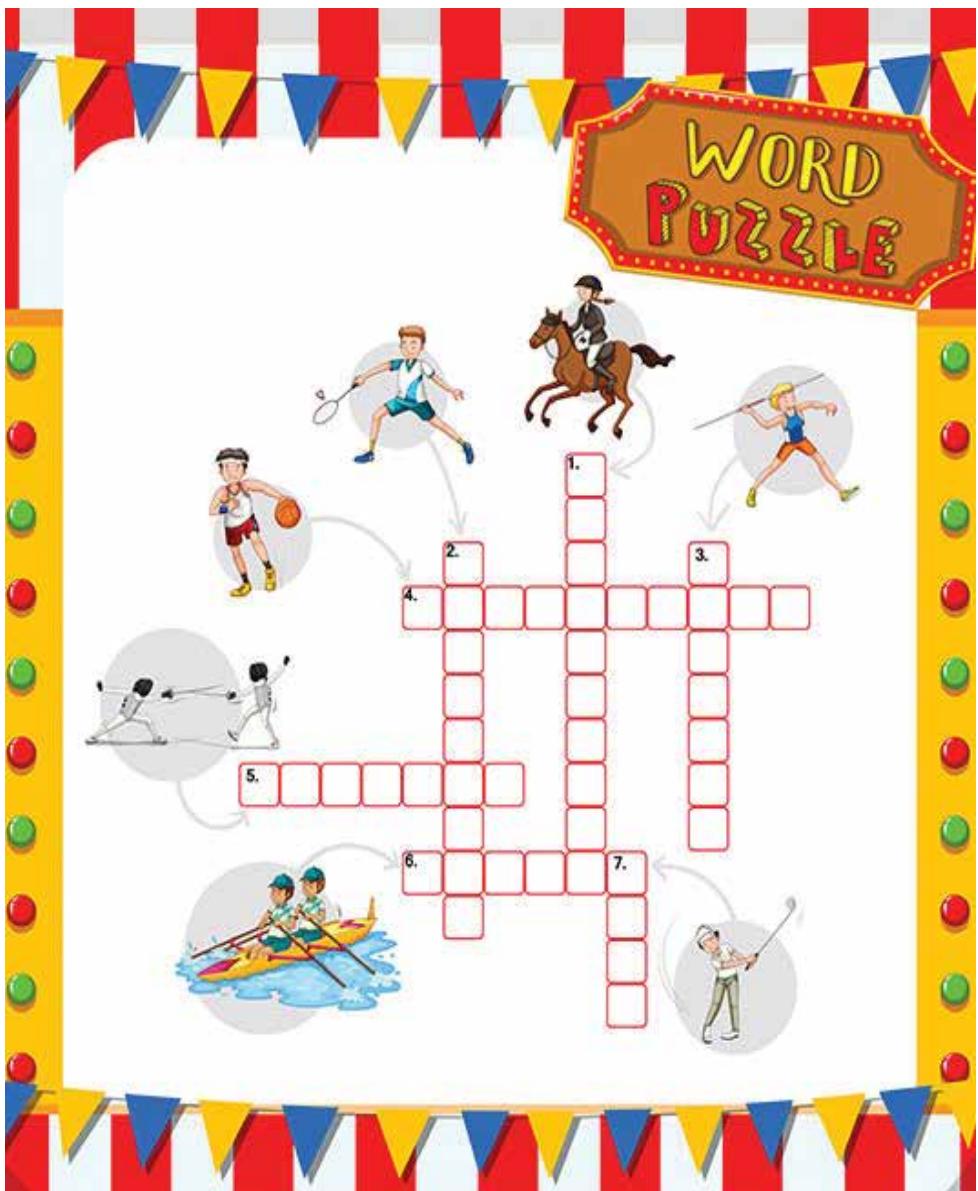
Find the missing number.



## Sports crossword

**Activity 29**  
(Age: 10+)

Fill in the puzzle using the given pictures.



## Who plays what?

Activity 30  
(Age: 10+)

## A Sports Logic Puzzle

Four children are great friends. Use the clues below to find out which sport each child plays.



	Basketball	Baseball	Volleyball	Soccer
Brad				
Jenny				
Frank				
Susan				

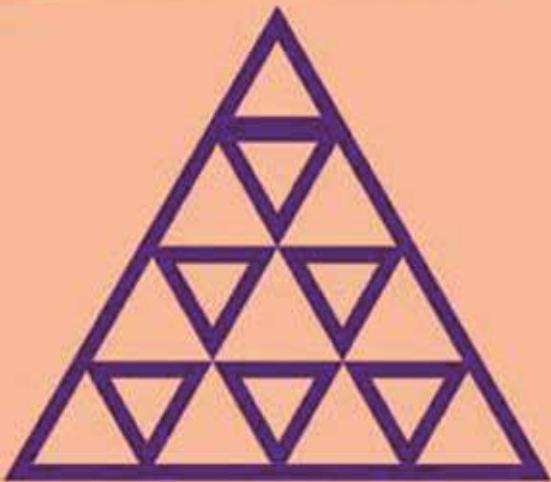
1. Brad plays a sport that begins with the same letter as his name.
2. Jenny has to kick the ball in the sport she plays.
3. Frank hit two home-runs this season.



## Count them all

**Activity 31**  
(Age: 10+)

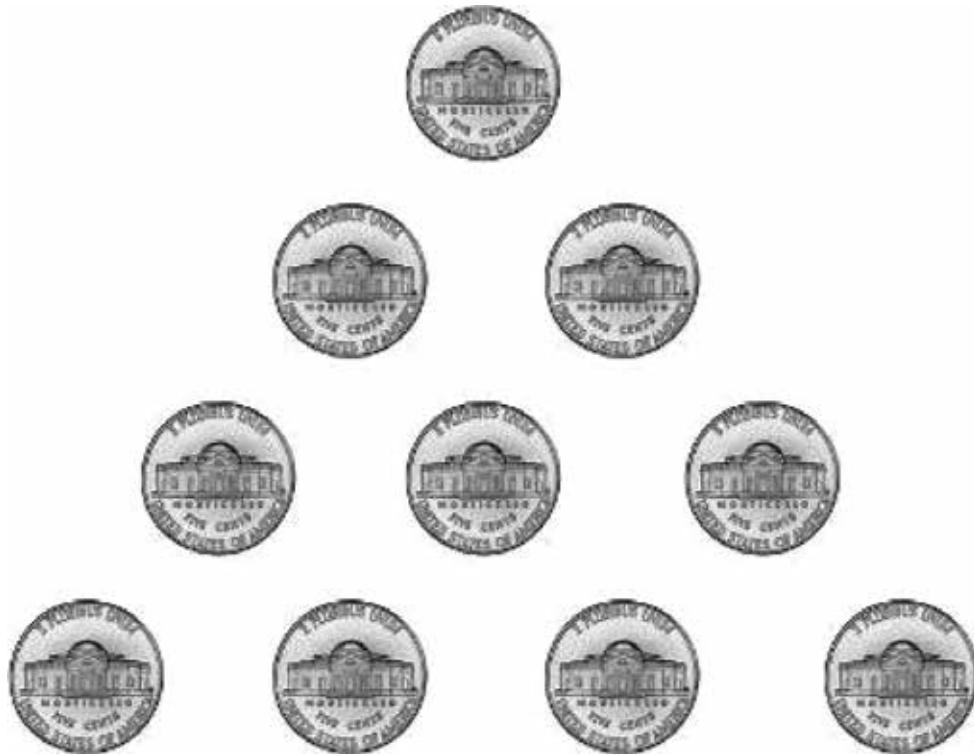
How many triangles are in this figure?



## Coin triangle

**Activity 32**  
(Age: 10+)

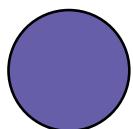
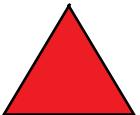
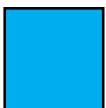
Move only three coins and turn the triangle upside down.



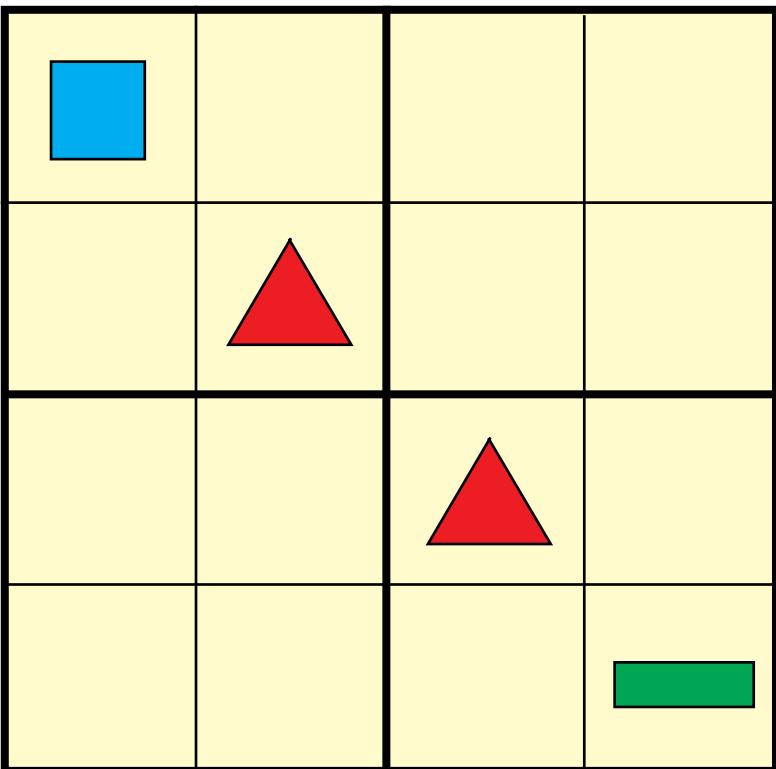
## Shape Sudoku

## Activity 33

(Age: 10+)



- Make sure you use 4 rectangles, 4 triangles, 4 circles and 4 squares.
- Each column and each row must have one of each shape.
- Each block of four, outlined by heavy lines must have one of each.

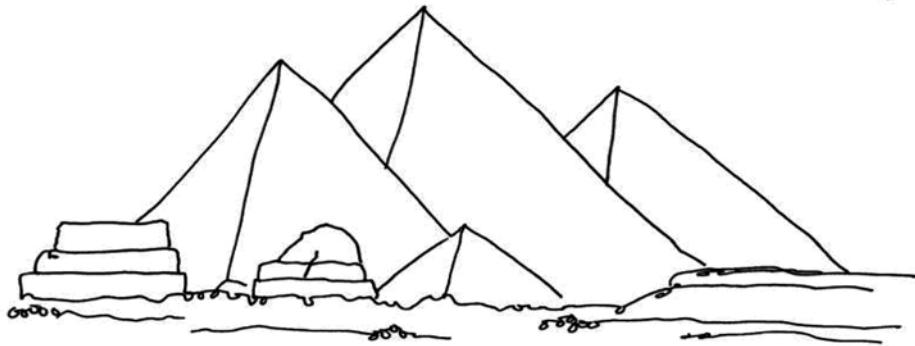
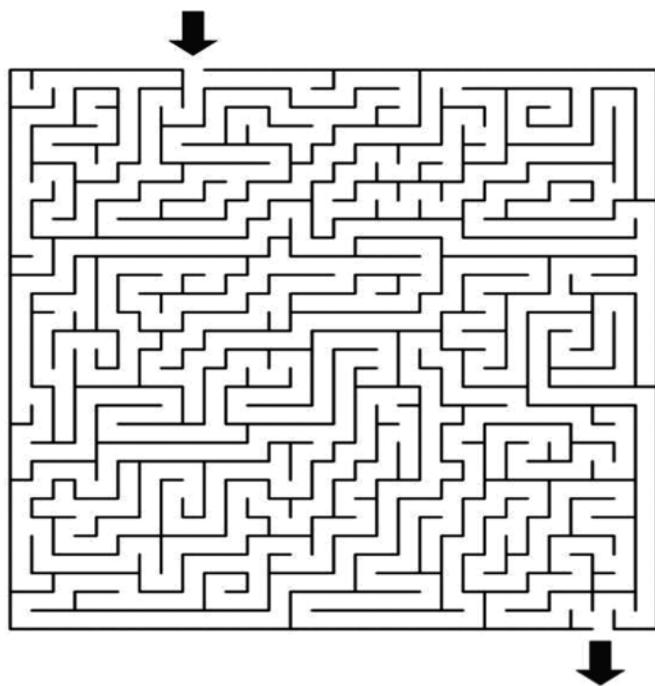


## Maze

## Activity 34

(Age: 10+)

The tourist wants to visit the pyramids. Can you guide him through the sands to get to them? Complete and colour the pyramids.



## Mixed emotions

### Activity 35

(Age: 10+)

Find the emotions which have been scrambled.

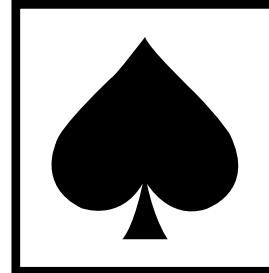
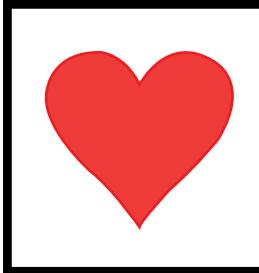
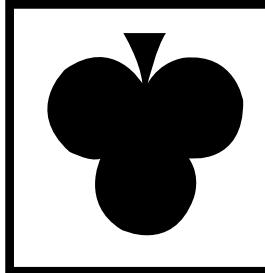
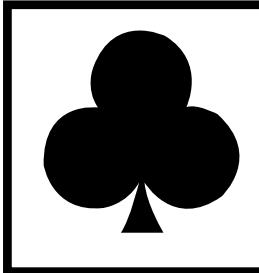
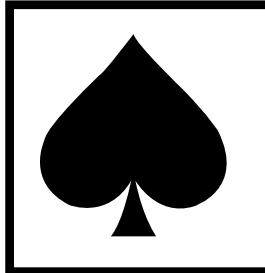
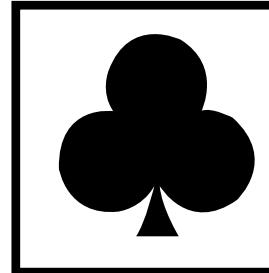
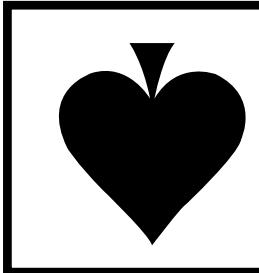
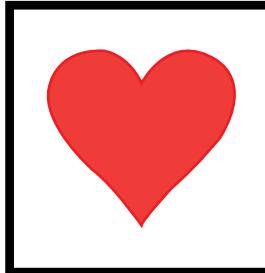
Scrambled Emotion	Answer
1. PHAYP	1.
2. EUFCNSOD	2.
3. GANYR	3.
4. DRPEI	4.
5. ENYLLO	5.
6. ASD	6.
7. ISUSRDPDER	7.
8. EYVN	8.
9. SAEMH	9.
10. TEEICDX	10.

## What's missing?

### Activity 36

(Age: 10+)

Draw the missing tile from the below matrix.

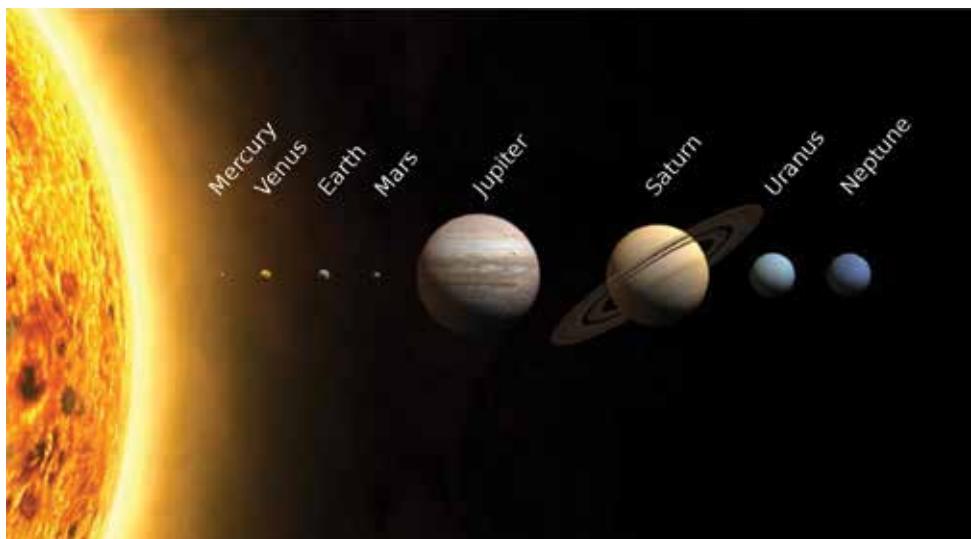


## Quiz on the solar system

### Activity 37

(Age: 10+)

1. What is the closest planet to the sun?
2. What is the name of the 2nd biggest planet in our solar system?
3. What is the hottest planet in our solar system?
4. What planet is famous for its big red spot on it?
5. What planet is famous for the beautiful rings that surround it?
6. Can humans breathe normally in space as they can on earth?
7. Is the sun a star or a planet?
8. Who was the first person to walk on the moon?
9. What planet is known as the red planet?
10. What is the name of the force holding us to the earth?



## Word guess

## Activity 38

(Age: 10+)

Guess the correct word from the clues given below.

**I am a 10 letter word.**

**My first three letters are singular  
form of the 7th, 8th and 9th letters.**

**My 4th, 5th and 6th letters always  
goes up and never comes down.**

**My 7th, 8th and 9th letters  
are the last things that  
God created.**

**And the 10th  
letter indicates  
the drink we will have.**

**WHAT AM I?**



## World puzzle

## Activity 39

(Age: 13+)

- I am an English word with five letters. If you remove my last four I am still pronounced the same. What am I?
- I will disappear every time you say my name. What am I?
- What has four wheels and flies?
- What kind of dress can never be worn?
- If you have me, you want to share me. If you share me, you haven't got me. What am I?

# Novel Coronavirus (COVID19)

## Follow these Dos



### Dos



Observe good personal hygiene



Throw used tissues into closed bins immediately after use



Wash your hands thoroughly with soap and water for at least 20 seconds



See a doctor if you are unwell



Cover your mouth while sneezing & coughing.  
In the absence of tissues, cough/ sneeze into your folded elbow



Avoid coming into contact with people who are sick or share the personal items, food, utensils, cups & towels



Maintain 6 feet distance from the person who is sick



Avoid large gathering



The most hygienic form of greeting - Namaste



Clean and disinfect frequently touched objects and surfaces

## Riddle time

**Activity 40**  
(Age: 13+)

- A. How do you make the number 7 an even number without addition, subtraction, multiplication or division?
- B. How can you take 2 from 5 and leave 4?
- C. How many sides does a circle have?
- D. How many times can you subtract the number 5 from 25?
- E. Can you write down eight eights so that they add up to one thousand?
- F. What did one math book say to the other math book?
- G. One is to three as three is to five and five is to four and four is the magic number. What is the pattern?
- H. When John was six years old he hammered a nail into his favorite tree to mark his height. Ten years later at age sixteen, John returned to see how much higher the nail was. If the tree grew by five centimeters each year, how much higher would the nail be?
- I. I am four times as old as my daughter. In 20 years time I shall be twice as old as her. How old are we now?
- J.  $81 \times 9 = 801$ . What must you do to make this equation true?

## Pack of cards

## Activity 41

(Age: 13+)

A small number of cards have been lost from a complete pack. If I deal among four people, three cards remain. If I deal among three people, two remain and if I deal among five people, two cards remain. How many cards are there?

# Novel Coronavirus (COVID19)

**Remember these Don'ts**



### Don'ts



Have a close contact with anyone, if you are experiencing cough and fever



Spit in public



Visiting farms or live animal markets where animals are slaughtered



Contact with live animals or consumption of raw and uncooked meat



Touch your eyes, mouth and nose



Travel if you are sick



Panic



Reach for antibiotics. Corona is a virus and antibiotics is to fight against bacteria

## Find the differences

## Activity 42

(Age: 13+)

Find the 5 differences between these two cartoons.

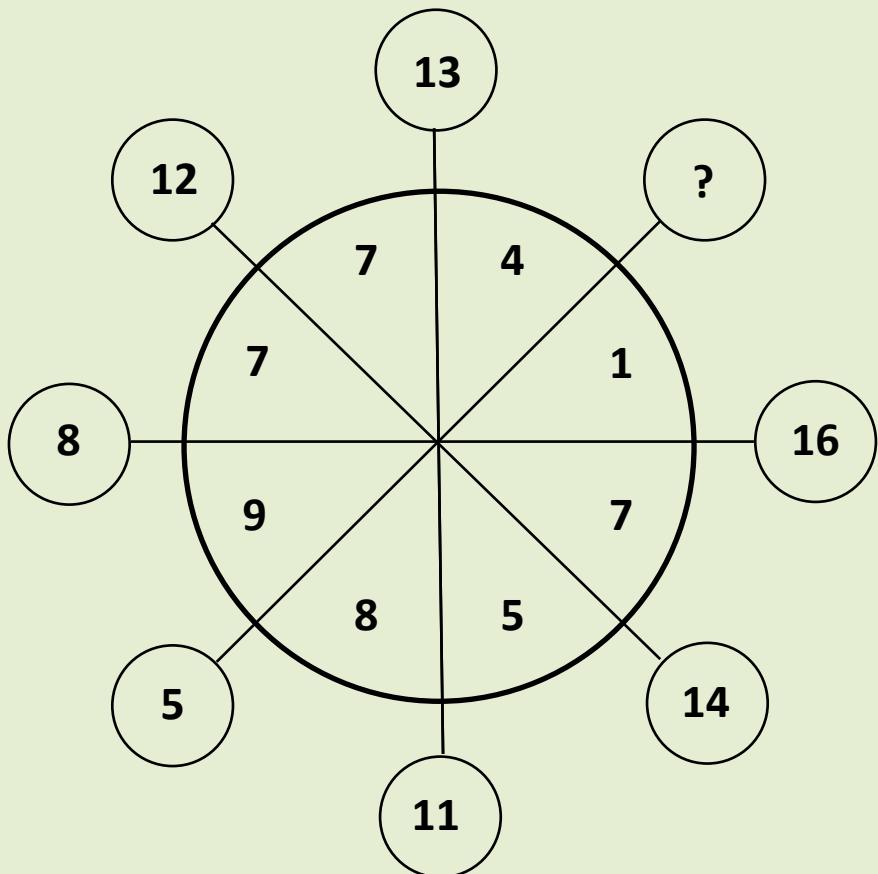


## Merry-go-round

## Activity 43

(Age: 13+)

Find the missing number.



## Tricky question

## Activity 44

(Age: 13+)

What number should replace the question mark?

			14	
	22			
			34	
41				
		53		?

## Odd one out

## Activity 45

(Age: 13+)

Find the odd one out.

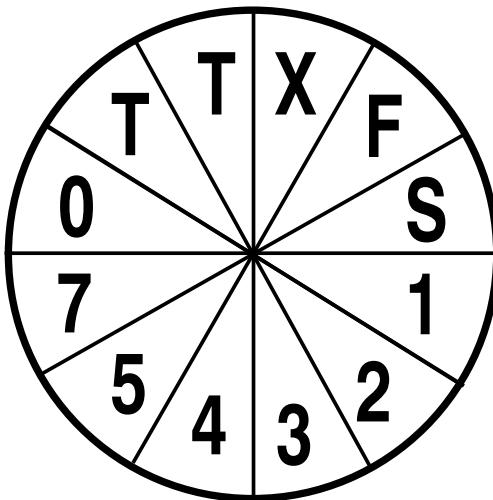
185	407	111	
740	37	1369	78

## The X factor

What is X?

### Activity 46

(Age: 13+)



## Letters and Numbers

### Activity 47

(Age: 13+)

Fill in the empty box with the correct letter.

H	C	N
26	15	20
R	L	

## Sudoku

## Activity 48

(Age: 13+)

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

## Quick quiz

## Activity 49

(Age: 13+)

A. Find the 11 letter Indian place using the hints

### Hints :

Last 6 letters is the name of a fruit.

9, 5, 3 is the name of a detergent soap.

1, 8, 3 is used by a student.

7, 8, 3 letters is a bird name.

6, 7, 5, 3 is an organ in the face.

B. What is black when you buy it, red when you use it, and gray when you throw it away?

C. Using the four letters UMNI, create a seven letter word.

## Twin pairs

## Activity 50

(Age: 13+)

In each word, there are 2 double blanks. Fill in the blanks with the same pair of letters to complete an English word.

B \_ \_ K P \_ \_ K

\_ \_ S \_ \_ D E

\_ \_ F \_ \_ I T E

L A B \_ \_ A T \_ \_ Y

## My secret word

### Activity 51

(Age: 13+)

One of the words listed below is my secret word.

AIM

DUE

MOD

OAT

TIE

If I were to tell you any one of the letters of my secret word, then you would be able to tell me the number of vowels in my secret word.

Which is my secret word?

## Riddle time

### Activity 52

(Age: 13+)

- a. What comes once in a minute, twice in a moment, but never in a thousand years?
- b. What always ends everything?
- c. I have keys, but no locks. I have space, but no room. You can enter, but you can't go outside. What am I?
- d. What coat is best put on wet?
- e. How much dirt is in a hole that measures 2 feet by 3 feet by 4 feet?
- f. Which is correct to say: "The yolk of the egg is white" or "The yolk of the egg are white?"
- g. This belongs to you, but everyone else uses it more.
- h. What has four fingers and a thumb, but isn't alive?
- i. What gets bigger the more you take away?

## Put them together

## Activity 53

(Age: 13+)

Complete the sentences by rearranging the sentence fragments.

1. When he .....

P : did not know

Q : he was nervous and

R : heard the hue and cry at midnight

S : what to do

- a) RQPS      b) QSPR
- c) SQPR      d) PQRS

2. It has been established that .....

P : Einstein was

Q : although a great scientist

R : weak in arithmetic

S : right from his school days

- a) SRPQ      b) QPRS
- c) QPSR      d) RQPS

3. He knew that.....

P : and then to save himself

Q : was to save all the lives

R : entrusted to his care

S : the duty of a captain

- a) PQRS      b) SQRP
- c) SPRQ      d) QSRP

## Fun with letters

### Activity 54

(Age: 13+)

Look at the word - GLADIOLUS

- a. Substitute each vowel of the word with the next letter in the alphabet.
- b. Substitute each consonant with the previous letter in the alphabet.
- c. How many vowels are there in the new arrangement?

## Geography trivia

### Activity 55

(Age: 13+)

- a. Which city is situated on two continents?
- b. Which two countries share the longest border in the world?
- c. Which is the world's largest country by size?
- d. Which continent is the most populous?
- e. Which is the largest capital city in the world (by population)?

**Top angle****Activity 56**

(Age: No Bar)

What number should replace the question mark?

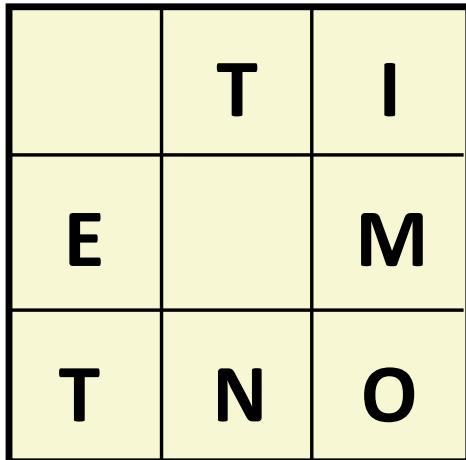
4	2	2	2
3	1	1	4
3	2	1	5
2	3	4	?

## Missing letters

### Activity 57

(Age: No Bar)

Move clockwise round the perimeter and finish at the centre square to spell out a nine letter word. You must find the starting point and provide the missing letters.

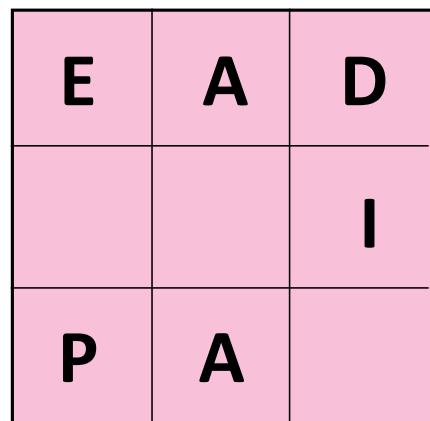


## Nine letter word

### Activity 58

(Age: No Bar)

Start at one of the four corner letters and move clockwise round the perimeter, finishing at the centre letter to spell out a nine letter word.  
You must provide the missing letters.



**Number miss****Activity 59**

(Age: No Bar)

What number should replace the question mark?

$$1 = 4$$

$$2 = 16$$

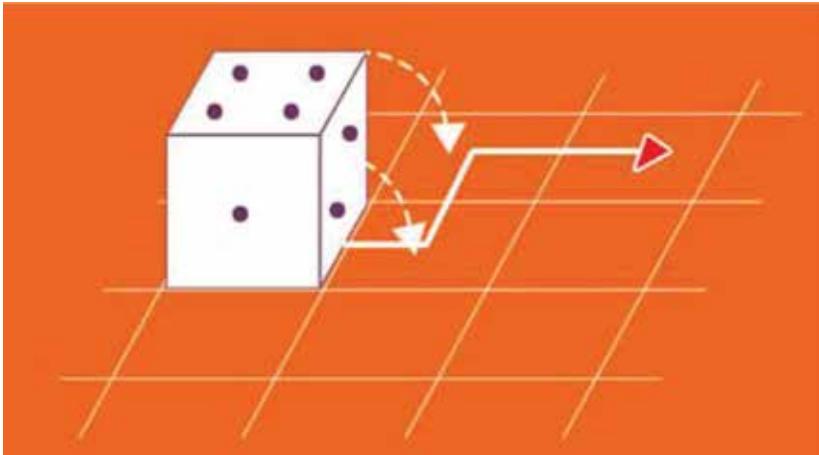
$$3 = 64$$

$$4 = ?$$

**Roll the dice****Activity 60**

(Age: No Bar)

If we move the dice to the point where there is a red arrow, what will be the number on the top?



## Average miles per hour

### Activity 61

(Age: No Bar)

A car is going up a hill. The hill is one mile long. The driver goes up the hill at an average speed of 30 miles per hour. When the driver reaches the top of the hill, he starts down the other side. The downhill side is also one mile long. How fast must the driver go down the hill in order to average 60 miles per hour?



## Odd one

### Activity 62

(Age: No Bar)

Which number is the odd one out?

84129

32418

47632

36119

67626

72927

## The murder mystery

**Activity 63**

(Age: No Bar)

Find the killer.



Mr. James was found dead in his room. The room had no window and the door was locked. The only 4 people who had a key to the room were questioned.

Lucy the maid: "I came to wake up Mr. James; when I saw him dead, I screamed!"

John the butler: "When I heard the scream, I ran into the room, turned on the light and saw Mr. James with a knife in his neck."

Sarah the governess: "I rushed up alongside John; when he turned on the light, the room was all bloody."

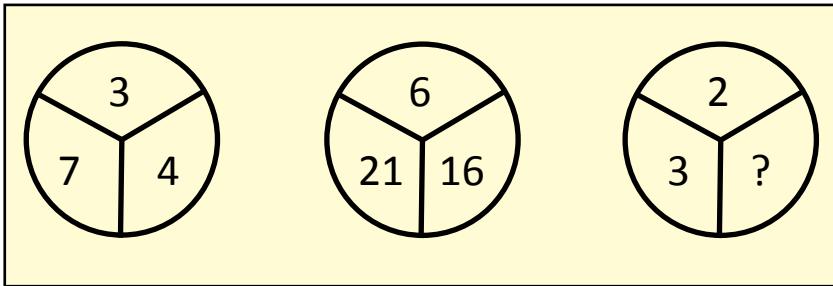
Jack the cook: "I was prepping breakfast and didn't see anything."

## Guess the right number

**Activity 64**

(Age: No Bar)

What number should replace the question mark?



## Midway letter

**Activity 65**

(Age: No Bar)

Which letter is midway, between the letter two letters below, the letter immediately to the left of the letter G, and the letter three letters, above the letter immediately to the right of the letter V?

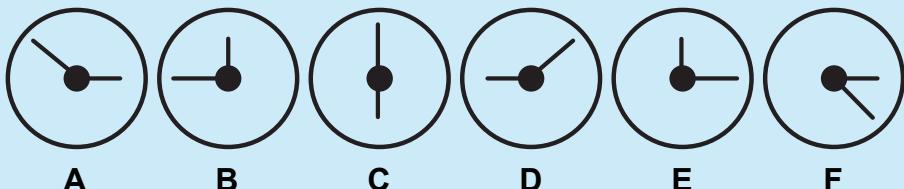
A	B	C	D	E	
F	G	H	I	J	
K	L	M	N	O	
P	Q	R	S	T	
U	V	W	X	Y	Z

## Right sequence

### Activity 66

(Age: No Bar)

Which does not belong in this sequence?

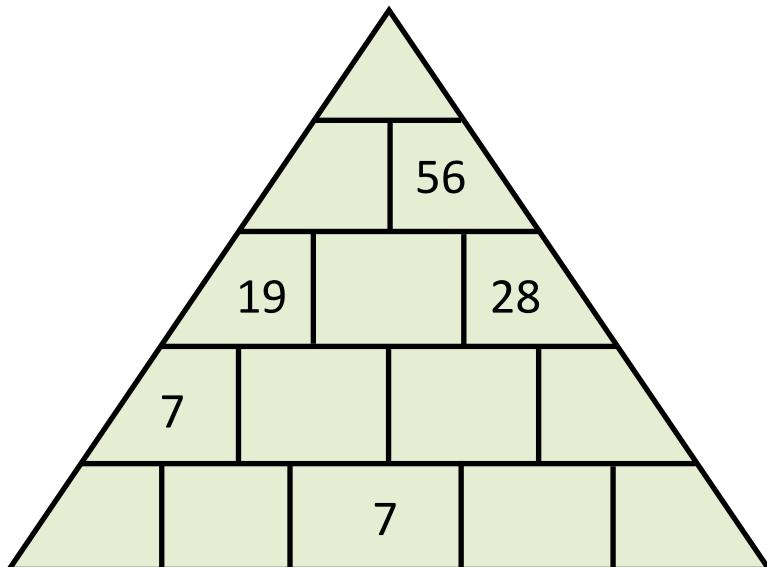


## Pyramid numbers

### Activity 67

(Age: No Bar)

Each number in the pyramid is the sum of the two numbers immediately below it. Fill in the pyramid with the missing numbers.

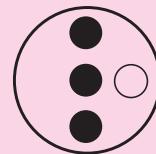
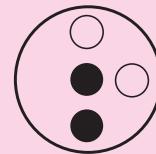
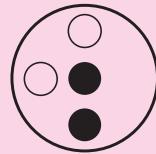
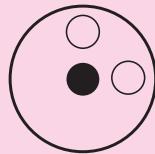
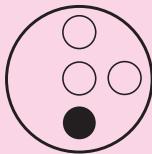
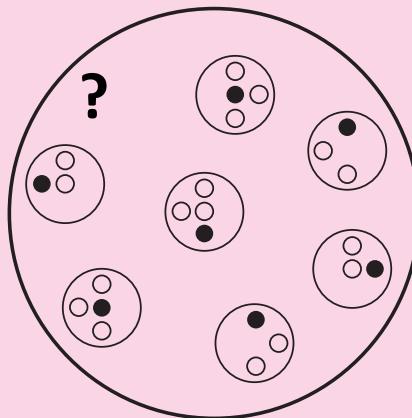


## Circle dots

### Activity 68

(Age: No Bar)

Which circle should replace the question mark?

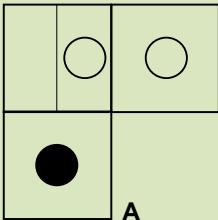
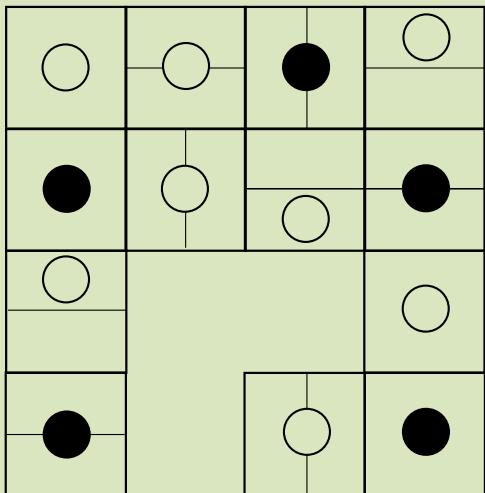


## Missing section

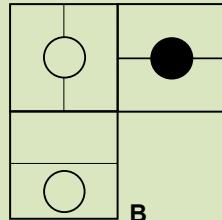
### Activity 69

(Age: No Bar)

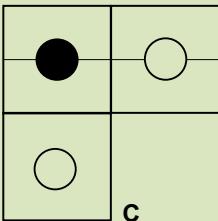
Which is the missing section?



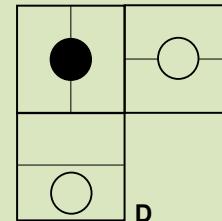
A



B



C



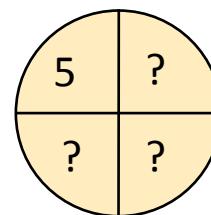
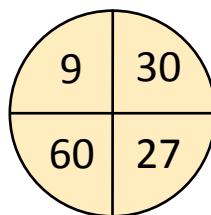
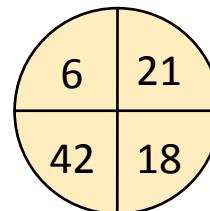
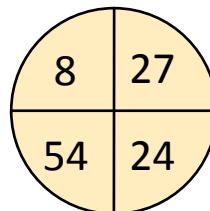
D

## Guess the number

### Activity 70

(Age: No Bar)

What numbers should replace the question marks?



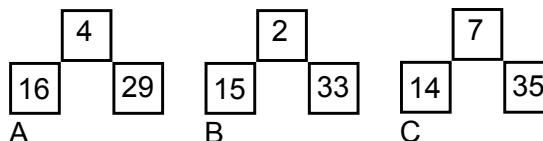
## Square puzzle

### Activity 71

(Age: No Bar)

Which is the missing section?

5	2	3	10
6	4	1	11
1	9	?	12
12	?	6	?

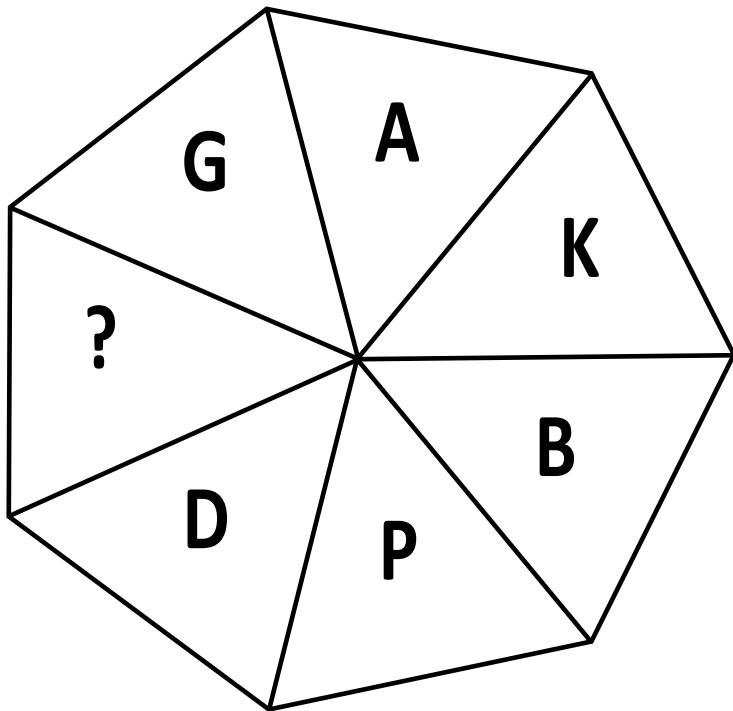


## Letter chakra

### Activity 72

(Age: No Bar)

What is the missing letter?

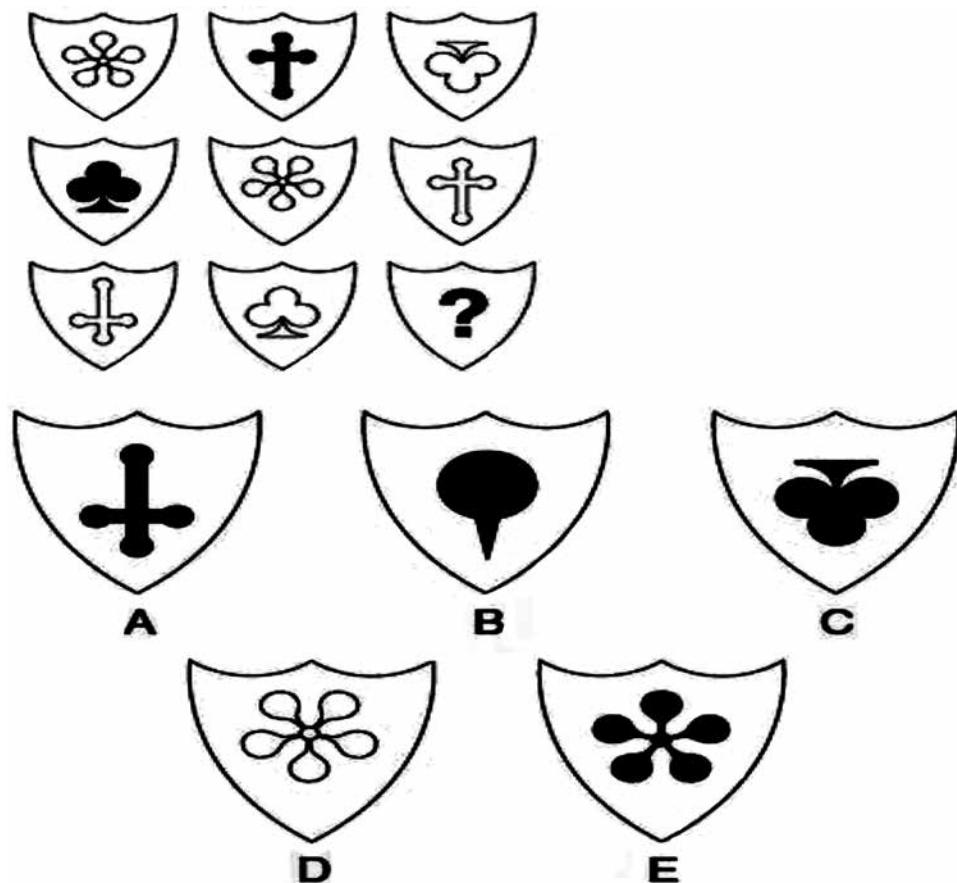


## Shield me

### Activity 73

(Age: No Bar)

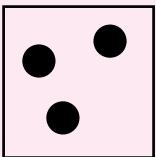
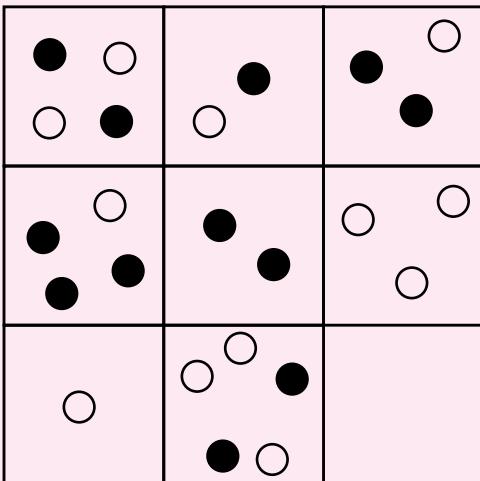
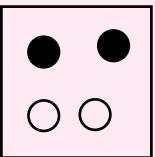
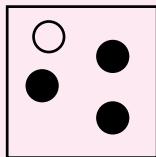
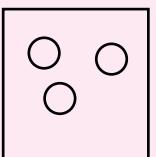
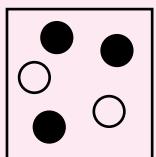
Which shield should replace the question mark?



**Right tile****Activity 74**

(Age: No Bar)

Find the missing tile.

**A****B****C****D****E**

## Anagrams

**Activity 75**

(Age: No Bar)

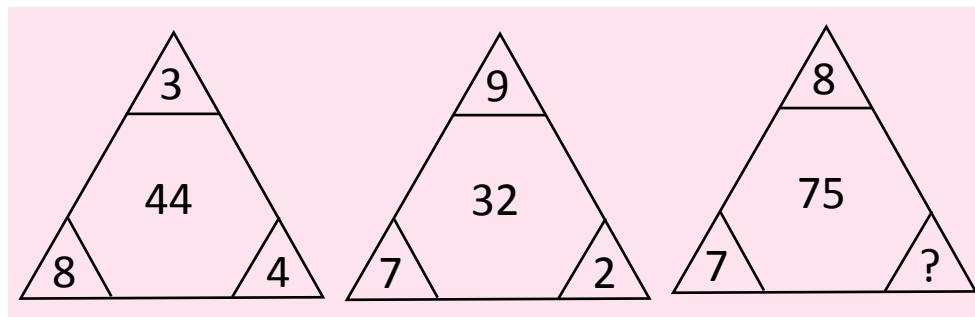
1. The following are all famous scientists with clues given by their notable inventions:
  - a. Demo Astonish (Light Bulb/Motion Picture Camera)
  - b. Oil Gale (Made improvements on the Telescope)
2. PURE AS TUFT is an anagram of which two words that are opposite in meaning?
3. Can you untangle these body parts?
  - a. Covert pine
  - b. Car panes

## Three triangles puzzle

**Activity 76**

(Age: No Bar)

Replace the question mark with the correct answer.

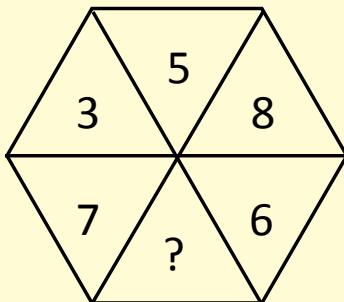
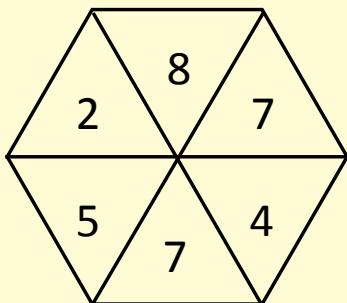
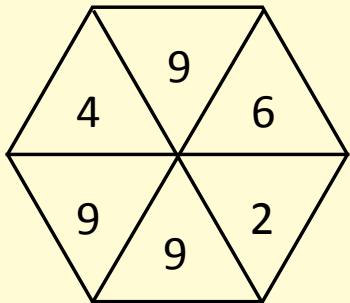


## Complete the Hexagon

**Activity 77**

(Age: No Bar)

Find the missing number.

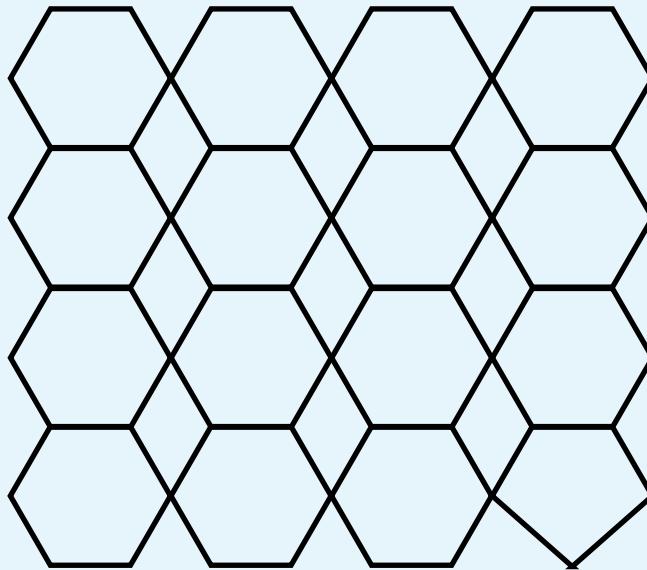


## Count hexagons

### Activity 78

(Age: No Bar)

How many hexagons (six sided figures) can you find here?

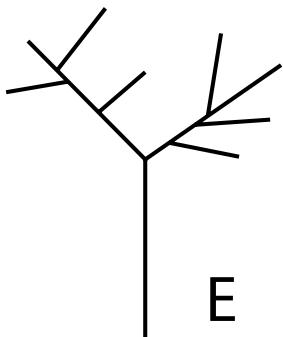
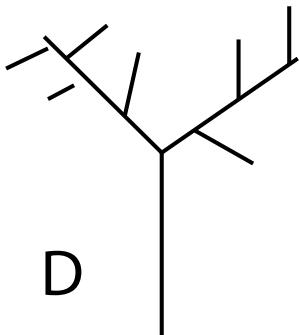
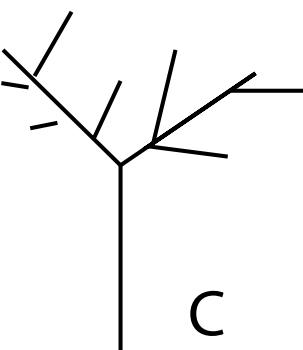
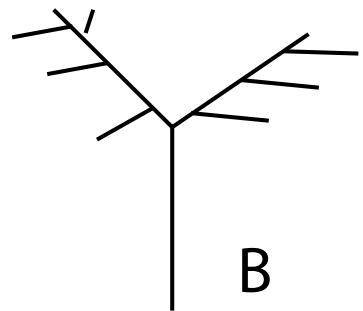
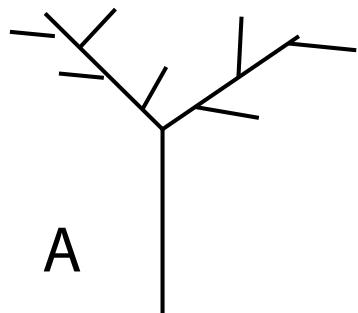


## Leafless tree

## Activity 79

(Age: No Bar)

Find the odd one out.



## Box puzzle

### Activity 80

(Age: No Bar)

The three numbers in each box have a relationship that is the same in all six boxes.

3		1	5
2	7		6
4	0	3	
8		4	5
10	1	6	2
1		?	

## Find the ages

### Activity 81

(Age: No Bar)

The ages of five family members total 107 between them.

The ages of Margaret and Stuart total 29 between them.

The ages of Stuart and Jeffrey total 44 between them.

The ages of Jeffrey and Brian total 57 between them

The ages of Brian and Philip total 46 between them.

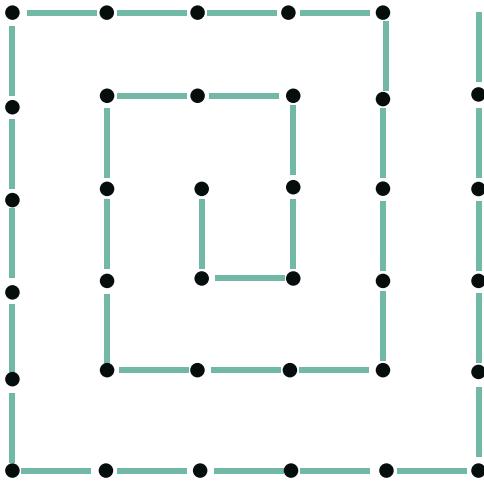
How old is each family member?

## Matchsticks puzzle

### Activity 82

(Age: No Bar)

Move 4 matchsticks to make 3 squares of different sizes.



## One word

### Activity 83

(Age: No Bar)

Which five-letter word can be placed in front of each of these words to make new words?

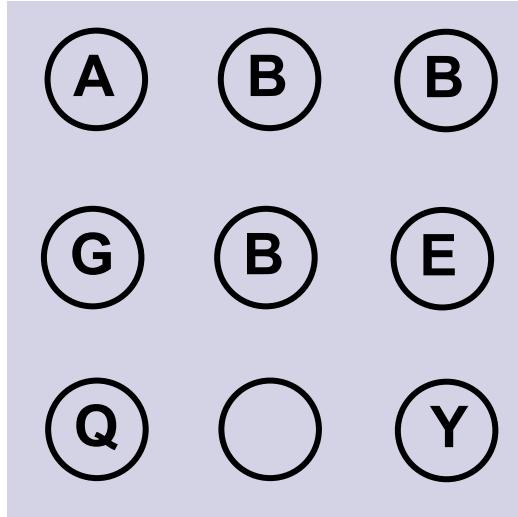
- - - - - RUNNER  
- - - - - AGE  
- - - - - LINE  
- - - - - RANK  
- - - - - MAN

## Alphabet puzzle

### Activity 84

(Age: No Bar)

Complete the puzzle.



## Age math

### Activity 85

(Age: No Bar)

Find the ages of Mary, George, Alice, Claire and Stephen based on the following conditions.

Mary + George = 33 years between them.

Alice + Claire = 95 years between them.

Stephen + Mary = 72 years between them.

Mary + Claire = 87 years between them.

Stephen + George = 73 years between them.

**Activity 86**

(Age: No Bar)

**Missing figure**

Which figure will come next?

**Line value****Activity 87**

(Age: No Bar)

What is the missing line value?

36

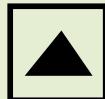
23

24

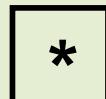
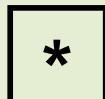
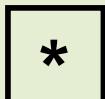
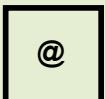
?



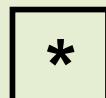
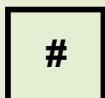
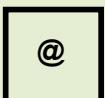
27



29



24



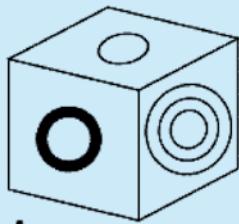
26

## Open pattern

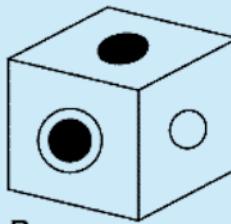
### Activity 88

(Age: No Bar)

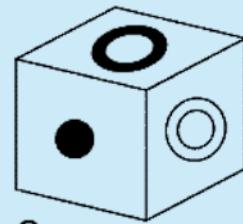
When the pattern is folded to form a cube, which is the only one of the following that can be produced?



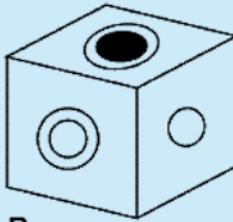
A



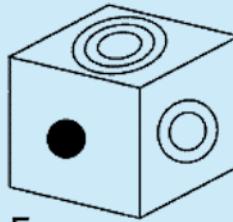
B



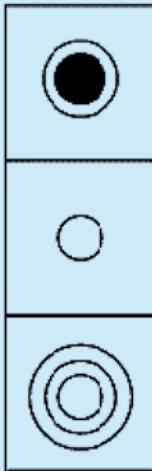
C



D



E



## Socks mystery

**Activity 89**

(Age: No Bar)



A man has 53 socks in his drawer: 21 identical blue, 15 identical black and 17 identical red.

The lights are fused and he is completely in the dark. How many socks must he take out to make 100 per cent certain he has a pair of black socks?

## Riddles

**Activity 90**

(Age: No Bar)

- a. I speak without a mouth and hear without ears, I have no body, but, come alive with wind. Who am I?
- b. You measure my life in hours and I serve you by expiring. I am quick when I am thin, and slow when 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, Who am I?
- d. What is seen in the middle of March and April, that can't be seen in the beginning or end of either of the month
- e. What English word has consecutive double letters?
- f. I come from a mine, and get surrounded by wood always, everyone uses me. What am I?

## Who holds what?

### Activity 91

(Age: No Bar)

**Study the following information carefully and answer the questions:**

Four players A, B, C and D are holding 4 cards each. Each of them has an Ace, a King, a Queen and a Jack. All of them have all the suits (spades, hearts, clubs and diamonds).

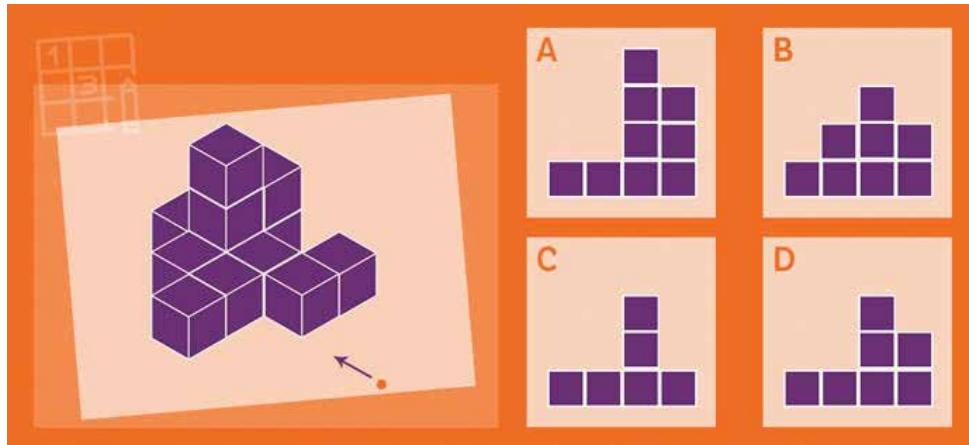
- i. A has Ace of spades and Queen of diamonds.
  - ii. B has Ace of clubs and King of diamonds.
  - iii. C has Queen of clubs and King of spades.
  - iv. D has Jack of clubs.
- 
- a. C has which of the following with him?
    1. Ace of hearts
    2. Jack of spades
    3. King of hearts
    4. Queen of spades
  - b. D has which of the following with him?
    1. Ace of hearts
    2. Queen of hearts
    3. King of hearts
    4. King of clubs
  - c. Ace of diamonds is with
    1. A
    2. B
    3. C
    4. D

## My view

### Activity 92

(Age: No Bar)

View the blocks on the left from the orange point and direction of the arrow. Which image on the right is the correct view?

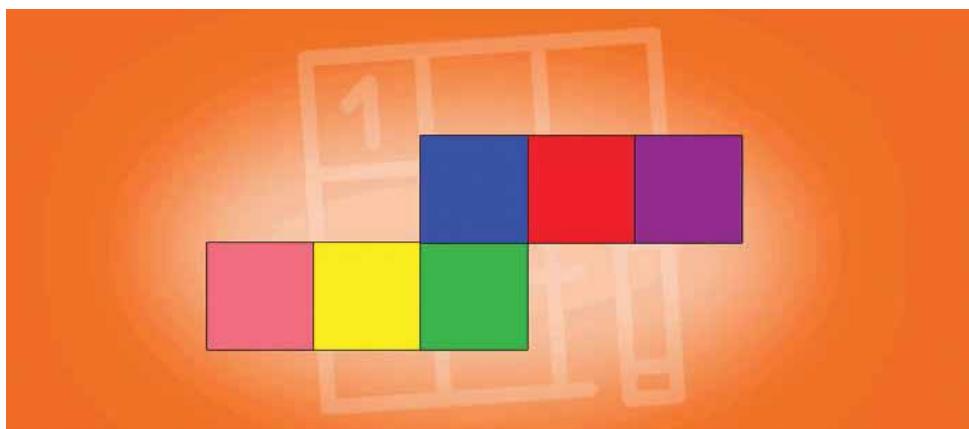


## Cube hues

### Activity 93

(Age: No Bar)

When the shape below is folded into a cube, what colours will the opposite faces be?



## Quick math

**Activity 94**

(Age: No Bar)

Which 4-digit number multiplied by 4 gives the same number in reverse?

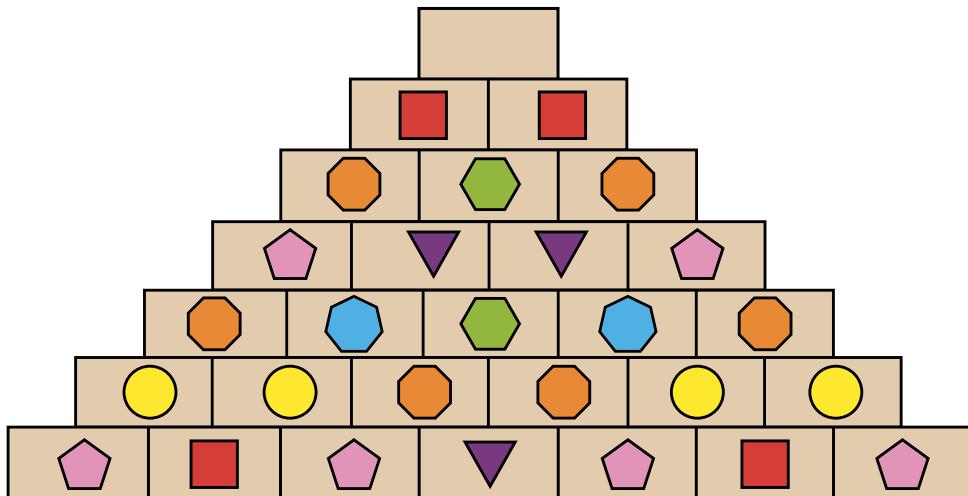
$$abcd \times 4 = dcba$$

## Cherry on top

**Activity 95**

(Age: No Bar)

What shape should be in the top brick?

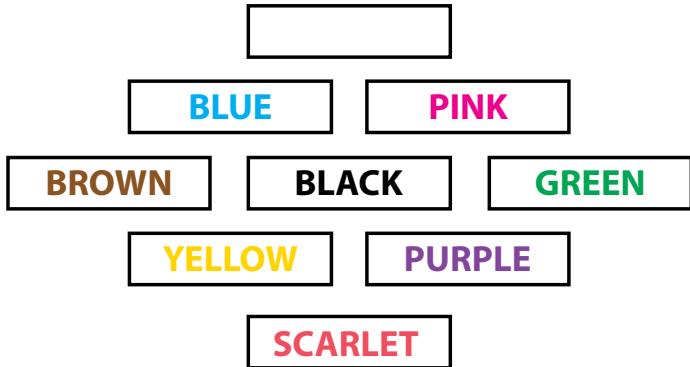


## Guess the colour

### Activity 96

(Age: No Bar)

What word might appear in the missing space?



## Crack the code

### Activity 97

(Age: No Bar)

Unlock the Key.



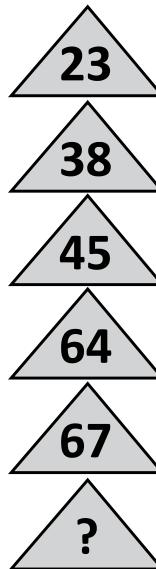
- a. 062, b. 602, c. 042, d. 204

## Series triangle

**Activity 98**

(Age: No Bar)

Complete the series.



- a. 90, b. 56, c. 34, d. 104

## Tough Clock

**Activity 99**

(Age: No Bar)

- I. A watch which gains uniformly is 2 minutes slow at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct?
  - a. 2 p.m. on Tuesday
  - b. 2 p.m. on Wednesday
  - c. 3 p.m. on Thursday
  - d. 1 p.m. on Friday
- II. At 3.40, the hour hand and the minute hand form an angle of .....
  - a. 120 degrees
  - b. 125 degrees
  - c. 130 degrees
  - d. 135 degrees

## Finding gold

### Activity 100

(Age: No Bar)

There are three boxes in a table. One of the boxes contains Gold and the other two are empty. Each box contains a printed message. One of the message is true and the other two are lies. The first box says 'The Gold is not here'. The Second box says 'The Gold is not here'. The Third box says 'The Gold is in the Second box'. Which box has the Gold?



## Game of substitution

### Activity 101

(Age: No Bar)

If A is substituted by 4, B by 3, C by 2, D by 4, E by 3, F by 2 and so on, then what will be total of the numerical values of the letters of the word SICK?

- a.11, b.12, c.10, d.9

## Days of the week

### Activity 102

(Age: No Bar)

IF

Monday = 617

Tuesday = 729

Wednesday = 9312

Thursday = 8412

Friday = 6511

Saturday = 8614

Then,

SUNDAY = ????

- a. 6713, b. 9415, c. 9515, d. 842

## Complete the grid

### Activity 103

(Age: No Bar)

Can you find the missing number?

2	6	18
4	20	100
??	21	147

## Complete the arrangement

**Activity 104**

(Age: No Bar)

Observe the arrangement below and fill the empty circle.

1	2	3				
4	5	4	6	7		
2	1	0	10	4	6	3
6	7		8	9		
2	6	8				

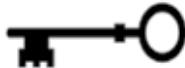
## Iced Tea Murder Mystery

**Activity 105**

(Age: No Bar)

Sherlock Holmes is one of our favourite fictional detective characters. He has solved many murder mysteries using his profound knowledge of forensic science and logical reasoning. In his life, he has made many admirers. However, there were few enemies of Sherlock Holmes and Professor James Moriarty was one of them. James was a criminal genius and was smarter than Holmes himself. One day James hired Mr X to kill Sherlock Holmes. Mr X disguised himself as an Insurance agent and called Sherlock Holmes for a meeting over a cup of tea. Mr X told the bartender to poison all the cups of iced tea for their table. Somehow Sherlock Holmes got to know Mr X's plan to kill him. Still, he came to the meeting.

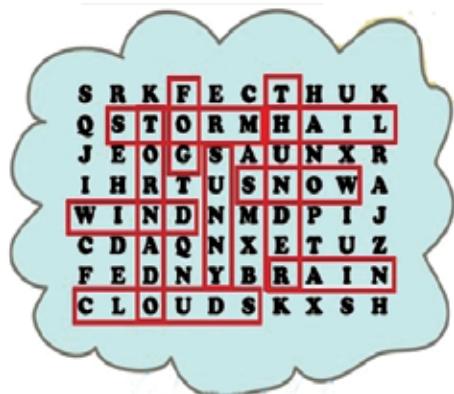
When the iced tea was served, he immediately drank 3 cups of it while Mr X kept on looking at him. Sherlock Holmes after finishing his tea pointed out that Mr X had not yet taken even one sip of his tea. Mr X saw Sherlock Holmes fully intact and thought that the bartender forgot to poison the tea. He slowly started drinking his tea and by the time he could finish half of his tea, he collapsed and died of poison. Now, all the cups of the iced tea, including the ones which Sherlock Holmes had, were poisoned by the bartender. Tell how Sherlock survived and Mr X got killed in his own game?



## Activity 7

B

## Activity 8



## Activity 9



## Activity 10

Key, Bug, Apple, Carrot, Trolley, Ant

## Activity 11

$2 \times 3 = 6$	$6 \times 5 = 30$
x	x
$4 \times 1 = 4$	$8 \times 4 = 32$
=	=
$2 \times 24 = 48$	
$2 \times 7 = 14$	$3 \times 12 = 36$
x	x
11	$5 \times 3 = 15$
=	=
22	$45 \times 2 = 90$

## Activity 12



## Activity 13

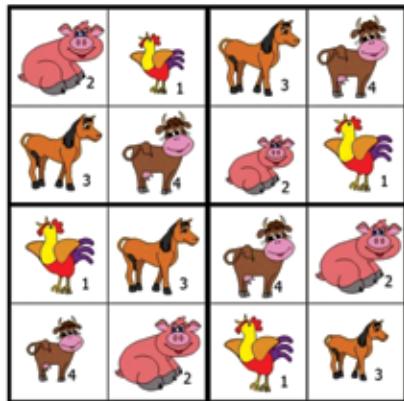


## Activity 14

1. Iguana
2. Black Lobster
3. Octopus
4. Panther
5. Tortoise
6. Shark
7. Lion
8. Eagle
9. Caterpillar
10. Dolphin
11. Fox
12. Scorpion



## Activity 15



## Activity 16

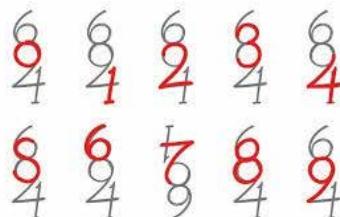
B

## Activity 17

If two bears are 120kg, one bear is 60kg. A bear and a rabbit are 70kg. If the bear is 60kg alone, then the rabbit is 10kg. Since the bear and the rabbit are 70kg, the weight remaining for the fox is 20kg.

## Activity 18

The answer is 10. When you look carefully at the image, you'll see the 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.



## Activity 19

12

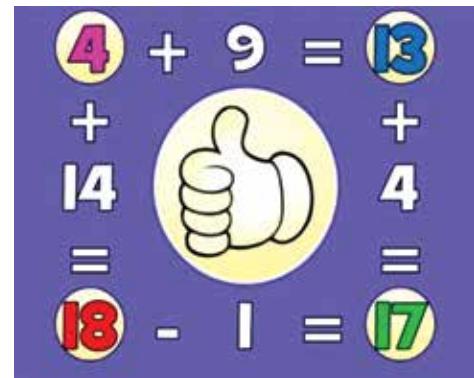
## Activity 20

It will take 3 minutes for 100 cats to catch 100 bunnies. 1 cat can catch 1 bunny in 3 minutes, so 100 cats can catch 100 bunnies in 3 minutes.

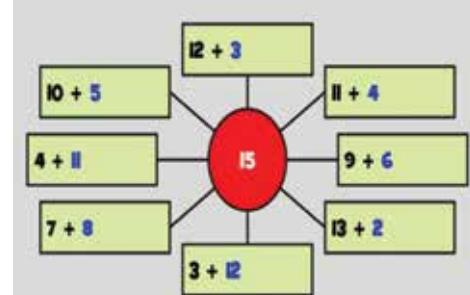
## Activity 21

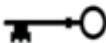
The answer is 9. Two parents, six sons, and one daughter.

## Activity 22



## Activity 23





## Activity 24



## Activity 26

12

## Activity 27

$$(A+B)=76$$

$$-A+B=-38$$

If it is added together,  $2B=38$ ,  $B=19$  is found.

$$A = 57 \text{ if } B = 19.$$

$$57/19 = 3$$

## Activity 28

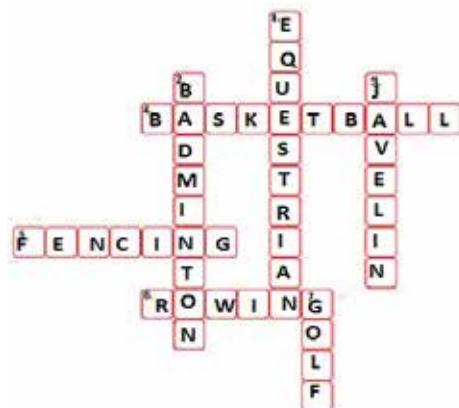
$$7*6 = 42$$

$$9*9 = 81$$

$$5*3 = 15$$

$$6*2 = 12$$

## Activity 29



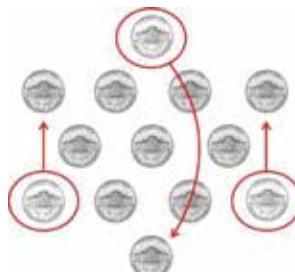
## Activity 30

	Basketball	Baseball	Volleyball	Soccer
Brad	O	X	X	X
Jonny	X	X	X	O
Frank	X	O	X	X
Susan	X	X	O	X

## Activity 31

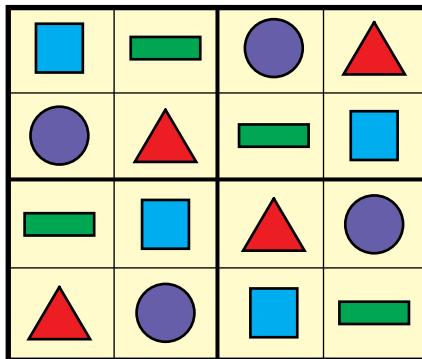
The answer is 27 triangles. (The number of triangles forms of 1 unit: 16, the number of triangles forms of 4 units: 7, the number of triangles forms of 9 units: 3, the number of triangles forms of 19 units: 1)

## Activity 32

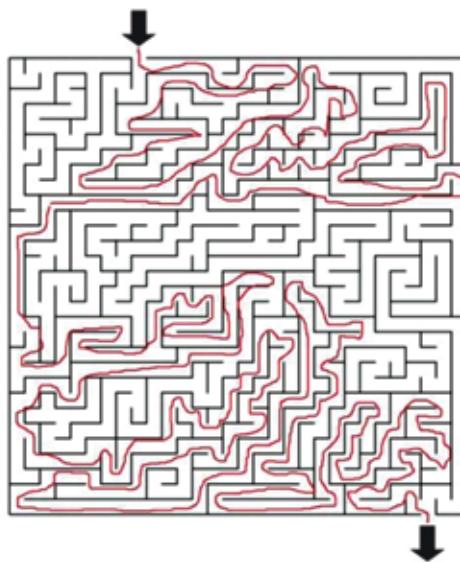




### Activity 33



### Activity 34

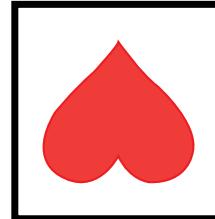


### Activity 35

1. HAPPY
2. CONFUSED
3. ANGRY
4. PRIDE
5. LONELY
6. SAD
7. SURPRISED

8. ENVY
9. SHAME
10. EXCITED

### Activity 36



### Activity 37

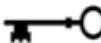
1. Mercury
2. Saturn
3. Venus
4. Jupiter
5. Saturn
6. No
7. A star
8. Neil Armstrong
9. Mars
10. Gravity

### Activity 38

Management

### Activity 39

- a. Queue
- b. Silence
- c. Garbage truck (It's true, a garbage truck has 4 wheels and lots of flies)



because flies like garbage. Here flies means insects like houseflies, mosquitoes, ... It doesn't mean that it flies in the air.)

d. Address

e. Secret

### Activity 40

A. Drop the S

B. F I V E

Remove the 2 letters F and E from five and you have IV.

C. Two. The inside and the outside.

D. Once, because after you subtract it's not 25 anymore.

E  $888 + 88 + 8 + 8 + 8 = 1000$ .

F. Do you want to hear my problems?

G. One has three letters in the word three has five letters in it five has four letters and four has four letters in it (if you try more numbers they will always come back to the number four: so four is the magic number)

H. The nail would be at the same height since trees grow at their tops.

I. I am 40 and my daughter is 10.

J. Turn it upside down.  $108 = 6 \times 18$ .

### Activity 41

There are 47 cards.

### Activity 42

1.Whiskers, 2. Tooth, 3. Tail feather,  
4. Window, 5. Hole in fence, 6. Bone

### Activity 43

17, it is the sum of the two digits (9+8) in the quadrant opposite

### Activity 44

55, each number indicates its position in the grid, 55 indicates row 5 columns 5

### Activity 45

78, the odd one out is 78. It is  $39 \times 2$ . The other numbers are all evenly divisible by 37.

### Activity 46

F, the letters are the initials of the numbers in the opposite segments. X is opposite to 4

### Activity 47

F, in columns the central number equals the sum of the numerical value of the top and bottom letters.



## Activity 48

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

## Activity 49

- A. PONDICHERRY, B. Charcoal,  
C. Minimum,

## Activity 50

B A C K P A C K  
C A S C A D E  
I N F I N I T E  
L A B O R A T O R Y

## Activity 51

If you were told any one of the letters of MOD you would not be able to determine whether the number of vowels in my secret word is one or two. Then my secret word cannot be AIM, DUE, MOD or OAT. Hence my secret word must be TIE.

## Activity 52

- a. Letter M, b. Letter G, c. A computer keyboard, d. A coat of Paint, e. None, f. Neither, egg yolks

are yellow, g. Your name, h. Glove, i. a hole

## Activity 53

Arrange these sentence fragments to form sentences

- a) RQPS
- b) QPRS
- b) SQRP

## Activity 54

No vowel. GLADIOLUS =  
FKBCJPKVR

## Activity 55

- A. Istanbul in Turkey is located both on the Asian and European continent.
- B. The longest border is between the United States of America and Canada. It is over 8893 km/ 5525 miles long.
- C. Russia is the largest country by size, followed by Canada, China and the USA.
- D. 60% of the world's population live on the Asian continent. More than 4.4 billion people live in Asia.
- E. Tokyo is the most populated city in the world. More than 38 million people live in the metropolitan area of Japan's capital city.

### Activity 56

10, Sol. Each diagonal line of numbers, starting with the top left hand corner number, increases by 1 each time, ie:

4

$$2+3 = 5$$

$$2+1+3 = 6$$

$$2+1+2+2 = 7$$

$$4+1+3 = 8$$

$$5+4 = 9$$

10

### Activity 57

TESTIMONY

### Activity 58

DISAPPEAR

### Activity 59

Follow the pattern below.

$$4^1=4$$

$$4^2=16$$

$$4^3=64$$

$$4^4=256$$

**Ans: 256**

### Activity 60

The sum of the two opposite of the dice is 7. In this case, the answer is 3.

### Activity 61

It is impossible to average 60 miles per hour. An average speed of 60 miles per hour requires two minutes to cover two miles. The first mile was covered at 30 miles per hour. This means that two minutes were used to travel that mile. Hence there are no minutes left to cover the second mile.

### Activity 62

47632, all the others are three digit numbers followed by their square root, eg 361 followed by its square root, 19

### Activity 63

It was Lucy. If the room was dark, she wouldn't have seen Mr. James lying there — unless she already knew it.

### Activity 64

4, looking across at the 3 circles, the number in the middle is the product of the two numbers in the same segment in the other two circles. Thus  $3*2=6$ ,  $7*3=21$ ,  $4*4=16$

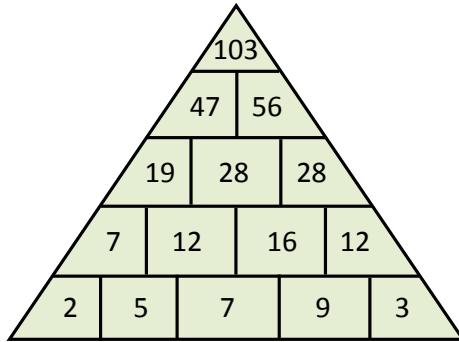
## Activity 65

L

## Activity 66

B, Sol. In the others the long hand moves  $45^\circ$  clockwise and the short hand moves  $90^\circ$  clockwise

## Activity 67



## Activity 68

A, each pair of circles are mirror images of each other

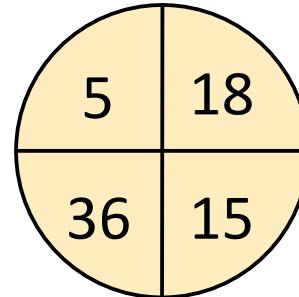
## Activity 69

D, the last two rows of figures repeat the first rows of figures in reverse

## Activity 70

Top left is a third of bottom right, bottom right is three less than top

right and top right is half of bottom left.



## Activity 71

B, Sol. In lines and columns, add the first three numbers to arrive at the fourth number.

## Activity 72

V, Sol: Start at A and work clockwise to alternate segments in the sequence ABCDefGhijKlmnoPqrstuv.

## Activity 73

E, Sol., Each line across and down contains one each of the three symbols. In each line one symbol is black, and one is upside down.

## Activity 74

A, Sol. Each line across and down contains five black dots and four white dots.

## Activity 75

- a. Thomas Edison
- b. Galileo
- c. Past, Future
- d. Optic Nerve
- e. Pancreas

## Activity 76

5

$$\text{Sol. } (8+7) \times 5 = 75$$

## Activity 77

1, The number formed at the top is half of the number formed at the bottom i.e.  $358 \times 2 = 716$

## Activity 78

21, there are 15 small hexagons and 6 large ones. The last shape in the bottom row is a pentagon

## Activity 79

E, all the others have four twigs on the left side branch and three twigs on the right side. Option E is the other way round.

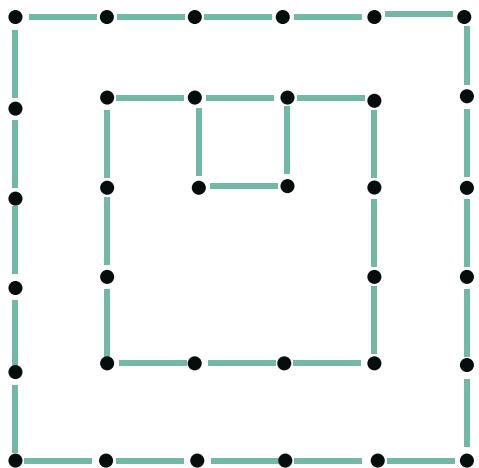
## Activity 80

12, the missing number is 4. The sum of three numbers in each box is 12.

## Activity 81

Margaret 17  
Stuart 12  
Jeffrey 32  
Brian 25 and Philip 21.

## Activity 82



## Activity 83

FRONT

## Activity 84

V, in columns, make a 2 digit number from the numerical values of the top and middle letters to give the numerical value of the bottom letter.

## Activity 85

Mary 16, George 17, Alice 24,  
Stephen 56, Claire 71

## Activity 86

A, the figures are groups of three of the same number squashed and rotated 90°

## Activity 87

23

## Activity 88

E

## Activity 89

40 socks, if he takes out 38 socks, although it is very unlikely, it is possible they could all be blue and red. To make 100 percent certain that he also has a pair of black socks he must take out a further two socks.

## Activity 90

a. An echo, b. Candle, c. Map, d. The letter "R", e. Bookkeeper, f. Pencil lead

## Activity 91

a. C has Ace of hearts, b. D has King of hearts, c. Ace of diamonds is with D.

## Activity 92

We start at the orange spot and look at the blocks. There are four blocks

at the base. There are two blocks on the right on the top floor. This eliminates option C. If we go up one more floor, we see only the second block on the right. So, the answer is D.

## Activity 93

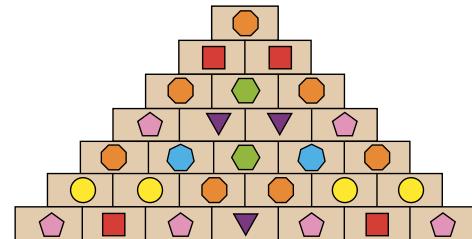
Reciprocal squares will be: Yellow-Red / Blue-Purple / Green-Pink

## Activity 94

When multiplied by 4, the number 2178 is 8712.

## Activity 95

An octagon. Each shape has the same number of sides as the sum of the sides of the two shapes below it. If the number is over 10, then the last digit is used instead. For example,  $9 + 8 = 17$  so the brick above is 7-sided. The top shape is an 8-sided octagon because there are two 4-sided shapes below it.



## Activity 96

RED or TAN. The number of letters in each tile is one less than those

in the following row. Hence, there must be only three letters in the empty tile.

### Activity 97

c. 042

### Activity 98

90, As you move down, the numbers represent multiples of 12, subtracting 1 for the first step, adding 2 for the second, subtracting 3 for the third, adding 4 for the next etc.

### Activity 99

i. B) 2 p.m. on Wednesday

Time from 12 p.m. on Monday to 2 p.m. on the following Monday = 7 days 2 hours = 170 hours.

The Watch gains  $(2+445)2+445$  min.  
or 345345 min.in 170 hrs.

Now, 345345min. are gained in 170 hrs.

2 min. are gained in  
 $(170*534*2)170*534*2$  hrs=50 hrs

Watch is correct 2 days 2 hrs. after 12 p.m. on Monday i.e., it will be correct at 2 p.m. on Wednesday

ii. C) 130 degrees

Angle traced by hour hand in 12 hrs.  
 $= 360^\circ$ .

Angle traced by it in  $11/3$  hrs=  
 $(360/12 * 113)^\circ$   $360/12 * 113^\circ = 110^\circ$   $110^\circ$

Angle traced by minute hand in 60 min. =  $360^\circ$ .

Angle traced by it in 40 min.  
 $=(360/60 * 40)=240$

Required angle  $(240 - 110)^\circ = 130^\circ$ .

### Activity 100

As the message contains one truth, the third says that the gold is in the second box, if it is to be true, then the first box message will also become true. So Gold cannot be in second and third boxes. **Gold is in the first box.**

### Activity 101

**S   I   C   K**

↓      ↓      ↓      ↓

**4    2    2    3**

Total value =  $4 + 2 + 2 + 3 = 11$ .

## Activity 102

A) 6713

In the given puzzle, the logic followed is

First digits comes from the number of letters in the word

Second digit is its serial number

Third digit is the addition of first and second digits

$$\Rightarrow \text{SUNDAY} = 6713$$

## Activity 103

The given number puzzle can be solved in two ways.

Logic 1 :

$$\text{Row 1} - 2 \times 3 = 6, 6 \times 3 = 18$$

$$\text{Row 2} - 4 \times 5 = 20, 20 \times 5 = 100$$

$$\text{Row 3} - 3 \times 7 = 21, 21 \times 7 = 147$$

Hence, the missing number could be 3.

Logic 2 :

$$\text{Row 1} - 6 \times (2+1) = 18$$

$$\text{Row 2} - 20 \times (4+1) = 100$$

$$\text{Row 3} - 21 \times (6+1) = 147$$

Hence, the missing number could be 6. Therefore, 3 or 6 is the right answer.

## Activity 104

4, the sum of the numbers on the right side of the middle circle - sum of the numbers on the left of the middle circle.

## Activity 105

Poison was in the Ice. Sherlock Holmes drunk the Tea before ice could melt and be part of the tea. However, Mr X took time to drink tea. By the time he drunk it, the ice melted and poison became part of the tea and killing Mr X.

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*For Internal Circulation Only.*

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