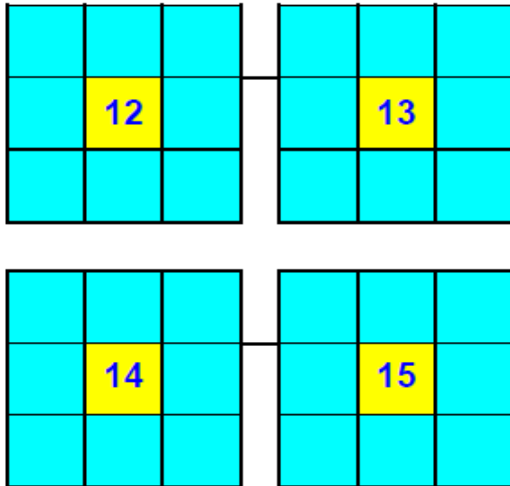


All Maths Weekly Challenges:



Puzzle time

12 to 15



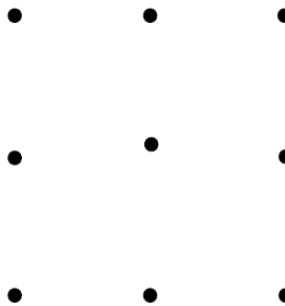
17th November 2017



Puzzle time

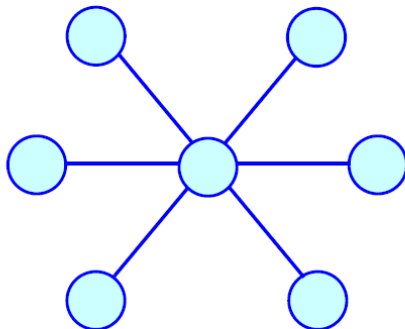
Four lines

Now this really does need some imaginative thinking - but it is possible!!



Puzzle time

Seven up!



Can you join all nine dots with four straight lines, without taking your pencil off the paper? You can not go over any line twice.

November 2017

24th




Put the numbers

1, 2, 3, 4, 5, 6 and 7

in the circles so that each straight line of three numbers adds up to the same total.

1st December 2017

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Puzzle time
Anagrams

Mathematical anagrams.

An anagram is a word or phrase made up of the letters of another word.

These are all made up from maths words.

Can you work them out?

| | | |
|-----------|--------------|-----------|
| ANGEL | RENUMB | CAR |
| DOD | CAGEDON | TRAIN LEG |
| SITE TEAM | MOLERKITE | UMS |
| LIB LION | BART SUCTION | A CROFT |

8th December 2017



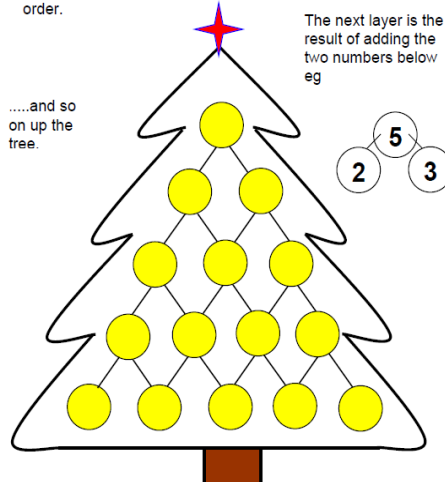
Puzzle time

Christmas tree

Put the numbers **1,2,3,4,5** in the bottom layer of baubles on the Christmas tree. They can be in any order.

The next layer is the result of adding the two numbers below eg

.....and so on up the tree.



What order on the bottom line will give the highest possible total at the top?
Clue: there is more than one possible way.

22nd December

2017

Puzzle time

Code breaker



A code is a way of writing a message in secret. The code below is very easy. Each letter of the alphabet is replaced by a number. Send your message in numbers and then your friend can use the de-coder to find out what it says.

THE DE-CODER

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

So, if I want to write 'hello' I would write 8 for H, 5 for E, 12 for L and 12 for L again and then 15 for O.
My code would be **8 5 12 12 15**



Now try and work out what this says.

The code:

| | | | | | | | | | | | | | | |
|---|----|--|----|----|----|---|----|---|----|----|---|---|----|----|
| 9 | | | 1 | 13 | | 2 | 18 | 9 | 12 | 12 | 9 | 1 | 14 | 20 |
| 1 | 20 | | 13 | 1 | 20 | 8 | 19 | | | | | | | |

19th January 2018



Puzzle time

Digit detector

You have got to be a detective to solve the problem below.

What is the least number of calculations you need to do to be absolutely certain of how much Norman Number is worth?

You must do them in the order shown.



How many am I?

1. I am a three digit number.
2. I am an odd number.
3. I am divisible by 5.
4. Each of my digits is different.
5. My digits add up to 8.
6. The tens digit is smaller than the hundreds digit.
7. I am less than 300.
8. I have only one even digit.

26th January 2018

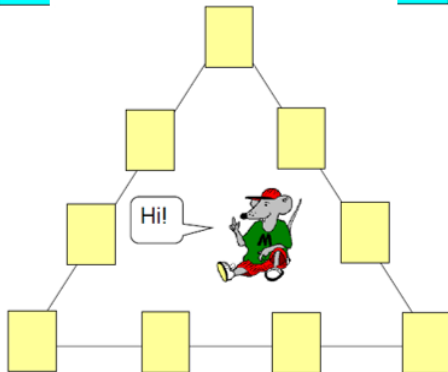


Puzzle time

Tricky twenty triangle



8 Put the numbers 1 to 9 in the boxes below so that each side of the triangle adds up to 20. 9



9th February 2018

Puzzle: What is heavier: a 1kg bag of bricks or a 1kg bag of feathers?

Answer: If they both weigh 1kg it doesn't matter what is inside, so they both weigh the same.

2nd March 2018

Puzzle: What has a face and two hands but no arms or legs?

Answer: Clock

19th April 2018