

Put your entry in the CMC box by the end of school on:  
**Tuesday 22<sup>nd</sup> January**

## EYFS (Nursery and Reception)



**How many jelly beans are in the jar?**

**Emma eats one of the jelly beans and gives another to her brother.**

**How many are left in the jar now?**

## KS1 (Year 1 & 2)

### I can read your mind!



Think of a two digit number,\*  
Reverse the digits to get another two digit number,  
Subtract the smaller two digit number from the other,  
Add the digits of your answer together  
I know what your answer is!

(\* The two digits must be different)



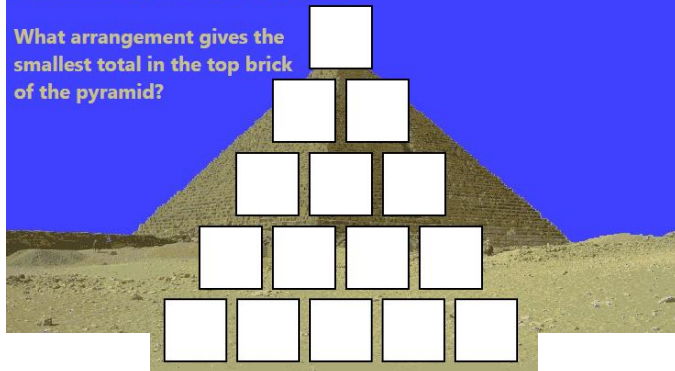
**See if this works!  
Prove it!**

## LKS2 (Year 3 & 4)

**1            2            3            4            5**

Put the numbers 1 to 5 in the bottom row of this pyramid. They can be arranged in any order. The numbers in the other bricks are found by adding the two bricks immediately below together. What arrangement of the numbers in the bottom row gives the largest total in the top brick of the pyramid?

What arrangement gives the smallest total in the top brick of the pyramid?



## UKS2 (Year 5 & 6)

### Happy New Year!



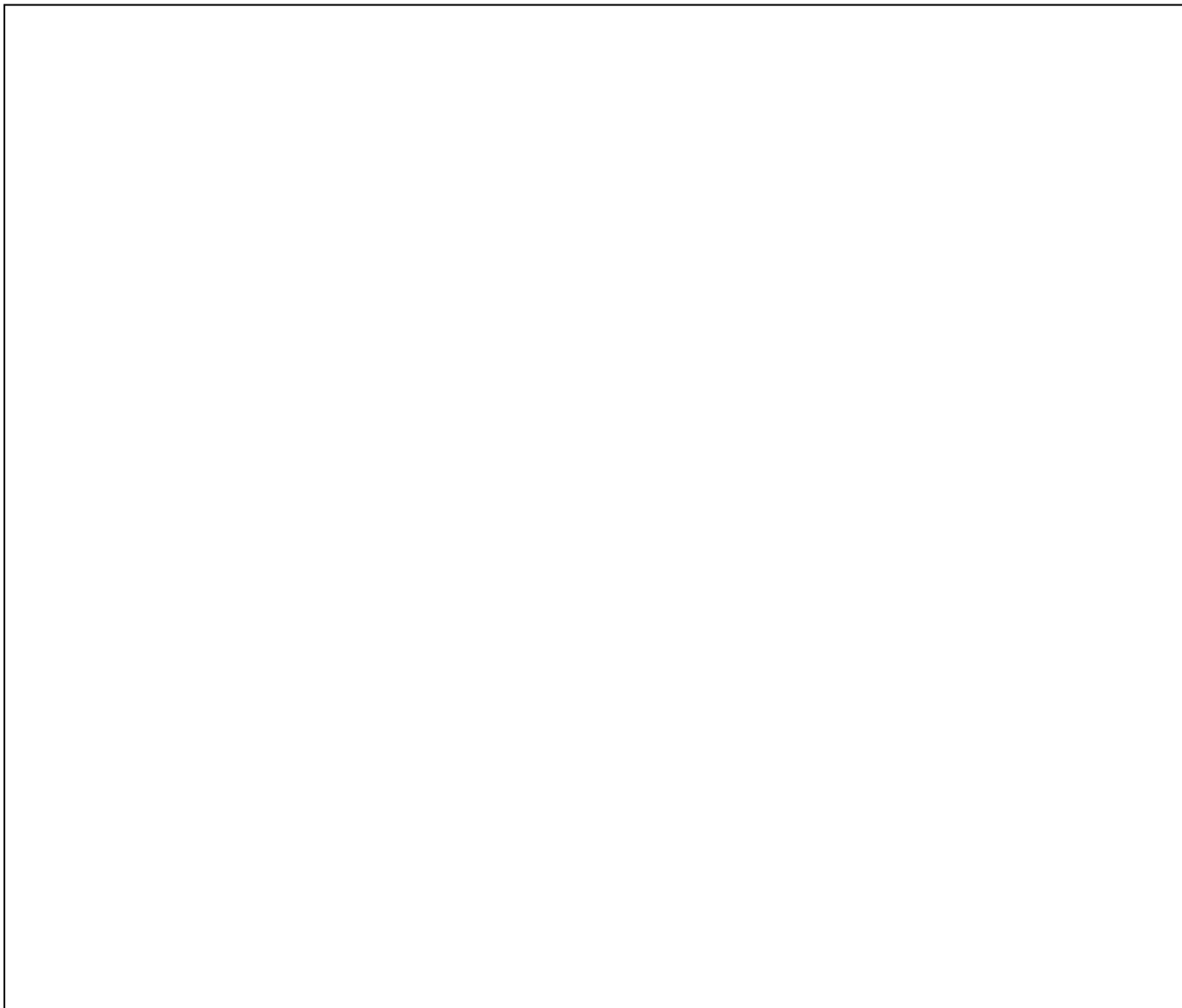
**What will the date be:**

- 1) 2019 days after 1st January 2019?
- 2) 2019 hours after 1st January 2019?
- 3) 2019 minutes after 1st January 2019?
- 4) 2019 seconds after 1st January 2019?

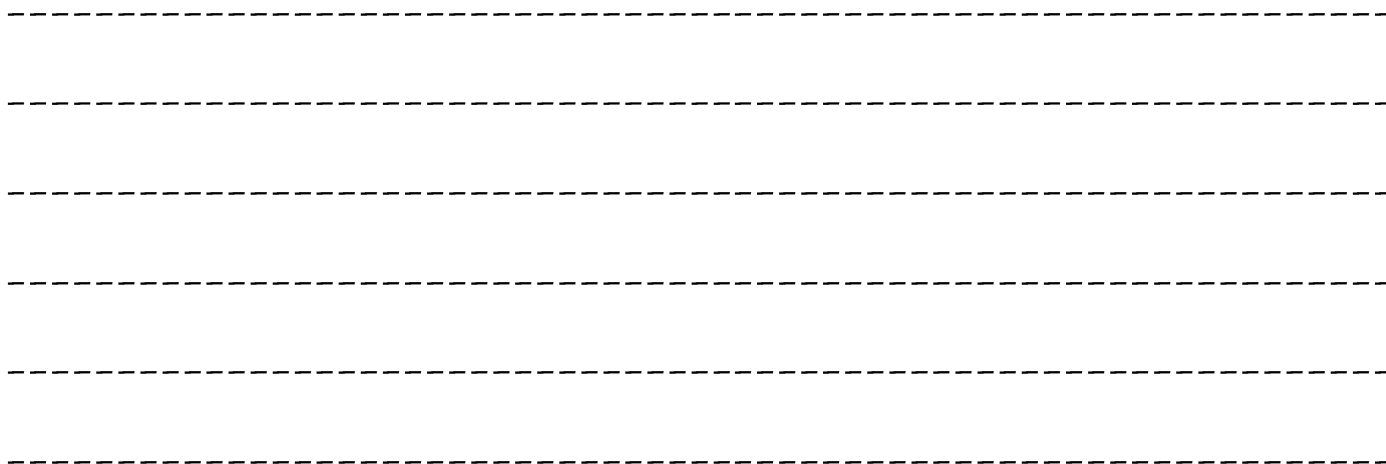
Name: \_\_\_\_\_

Year: \_\_\_\_\_

Working out space:



Now explain how you solved the problem!



Remember you can work the challenge out any way you would like to: draw pictures, use materials like buttons as counters, count in your head... Just make sure you show this on your solution paper!