Summer Term Maths Challenge

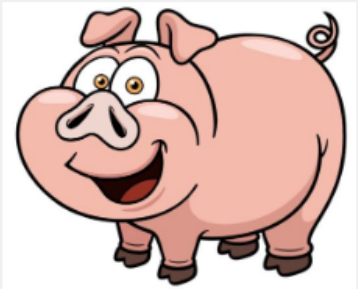
Wk 3: 11 May 2020

Dear Children, each week I will be setting challenges for you to complete at home. There will be different challenges which will really get you thinking about your Mathematics. I'd love you to try these and send in your solutions. The aim is not to always be 'right' but to get you thinking and talking about Maths.

Good luck and please do return any work to me at : sjackson@march.w-sussex.sch.uk

Mr Jackson

Year R,1 and 2



Topics:
Number Sense

Grades:
1, 2, 3, 4, 5, 6, 7

Pig

This is a quick game that can be played to practice addition. It provides fun by tempting a player with making that next roll to get a higher score. Soft dice or an app to simulate a dice roll can make this a quiet activity for fun and practice.

Task Instructions

- The goal is to be the first player to reach 100.
- On your turn, roll the dice and determine the sum. You can either stop and record that sum or continue rolling and add the new sums together.
- Roll the pair of dice as many times as you choose. Again, when you decide to stop, record the current total for your score (and add it to your previous score).

But beware! If you roll a 1 on exactly one die, your turn ends and 0 is your recorded score for that turn. And, if you roll double 1's, your turn ends and your entire score is set back to 0.

youcubed
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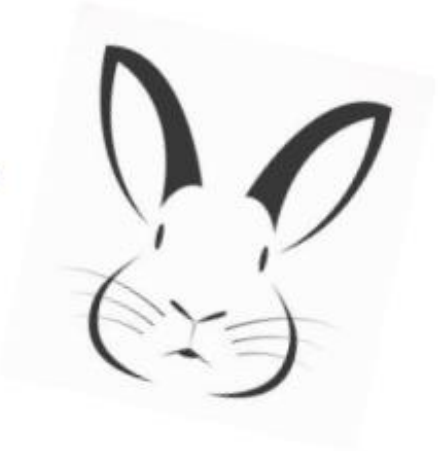
Leo the Rabbit

Leo the Rabbit is climbing up a flight of 10 steps. Leo can only hop up 1 or 2 steps each time he hops. He never hops down, only up. How many different ways can Leo hop up the flight of 10 steps? Provide evidence to justify your thinking.



Years 3 and 4

Year 5 and 6

Topics:
Number Sense

Grades:
6, 7, 8

What's the Secret Code?

This task helps students build number sense as they practice calculating. The task has more than one solution which is nice. At the end it asks students to write a clue that gives the task only one solution.

Task Instructions

1. Use the clues to find the code number:
    1. It is between 8,500 and 8,800.
    2. When multiplied by 8, the result is a whole number.
    3. The digit in the hundreds place is ¾ the digit in the thousands place.
    4. The sum of all digits in the number is 26.
    5. The digit in the hundredths place is 200% of the digit in the tenths place.
    6. There are no zeros in the decimal places.
2. What code numbers fit these clues?
3. Explain how you used all of these clues to find these possibilities.
4. Write one more clue so that there is only one possible code number.