Maths
Weekly Wonders

A fun, weekly challenge linked to events happening in the world around us to keep mathematical minds active!

Choose from Key Stage 1, Lower Key Stage 2 or Upper Key Stage 2.

Cambridgeshire County Council

Week 1 - 19/07/21

Cambs Maths Team

Maths Weekly Wonders

17th - 25th July, 2021: National Moth Week

Hercules moth from Australia.
Wingspan **2**7cm.

The Clifden Nonpareil moth from England.
Wingspan 1**2**cm.

1) Which is the biggest moth? How do you know?

   Hercules is the biggest because 27cm > 12cm wingspan.

2) What is the value of the 2 digit in each number?

   2̲7   Twenty   1̲2̲   Two

3) What is the difference in wingspans?**15cm**

Wingspan

Maths Weekly Wonders
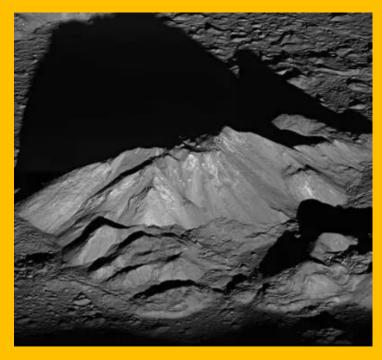
Tuesday 20th July, 2021: Moon Landing Anniversary

1) On July 20th, 1969, Apollo 11 carried the first humans to the moon. How many years ago was this? **52**

2) The moon takes 27.3 days to travel 384,400km in orbit around the Earth. What value does the digit 3 represent in each number? **3 tenths** **3 hundred thousand**

3) Mons Huygens is the tallest mountain on the Moon. It is 4700m tall. Mount Everest is the tallest mountain on Earth at 8848m tall. What is the difference in height of the two mountains? **4148m**

4) The temperature on the moon can be high as 127°C. When the sun goes down, temperatures can decrease by 300 °C. What would the temperature be then? **-173°C**

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Tuesday 20th July, 2021: International Chess Day

1) How many white squares are on a chess board? **32**

2) What fraction of the number of squares on the board **16 or 1** have no pieces on at the start of play (see diagram)? **32   2**

3) Alan Turing developed the first computer program for playing chess in 1951. How many years ago was this? **70 years**

4) The world's largest chess piece currently stands at 6.095m tall. This is 53 times bigger than a standard "Champion Staunton" king chess piece. What is the height of the original piece, in cm? **11.5cm**

5) The number of possible ways of playing the first four moves for both sides in a game of chess is **3**18,979,564,000. What is the value of the 3 digit? **Three hundred billion**