

Home Learning week beginning Monday 15th June 2020

Here are some math's questions for you to investigate. There are a number of answers so let's see what you can find.

Monday 15th June 2020

Q1

Maths Investigation

If the answer is 256, what could the equation be?

For example: $257-1=256$.

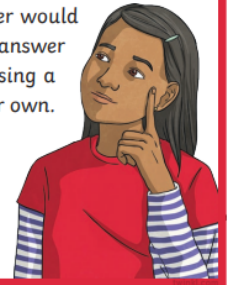
What are the most complicated equations you can come up with?



Q2

Maths Investigation

If you roll a dice 100 times, which number would you roll the most? Give a reason for your answer and then try it out. Record your results using a tally and then graph using a choice of your own.



Tuesday 16th June 2020

Q1

Maths Investigation

How long have you been at school? Answer as accurately as you can. Try to use the exact number of days, hours, minutes or even seconds?



Q2

Maths Investigation

Budget a trip for your family to a place of your choice. Think about how much fuel or plane tickets would cost, how much accommodation and food would cost for everyone as well as tickets to any attractions your family would enjoy in that area.



Wednesday 17th June 2020

Q1

Maths Investigation

The 4 fours problem. Can you complete these equations?

$$\begin{aligned}4 & 4 & 4 & 4 & = & 0 \\4 & 4 & 4 & 4 & = & 1 \\4 & 4 & 4 & 4 & = & 2 \\4 & 4 & 4 & 4 & = & 3 \\4 & 4 & 4 & 4 & = & 4 \\4 & 4 & 4 & 4 & = & 5\end{aligned}$$

Hint use BODMAS and $+$ $-$ \times \div $()$ to help you

Can you keep going or make your own?



Q2

Maths Investigation

How many shapes can you make with an area and perimeter of 20?

Hint: You can use diagonal lines to help.

Remember that the perimeter is the measurement around the edge of a 2D shape and the area is the measurement of the space taken up by a 2D shape, usually measured in square units, such as cm^2 .



Thursday 18th June 2020

Q1

Maths Investigation

How many cups of coffee do you think your teachers drink at school every week?

Think about how many teachers there are at your school, how many recess and lunch breaks they have and how often teachers might have yard duty.



Q2

Maths Investigation

Using the numbers 1, 2, 3, 4, and the operations +, -, ×, ÷ make an equation equaling 0-30.

For example $1 + 2 + 3 + 4 = 10$

You must use all four numbers once in each equation.



Friday 19th June 2020

Q1

Maths Investigation

What is the largest number you can make from the numbers below?

9 6 3 2

For example, $632 + 9 = 641$ or $63 \times 29 = 1829$.

What is the smallest number you can make?



Q2

Maths Investigation

Choose a number from below:

2 3 4 5 6 7 8 9

Multiply it by itself 10 times. For example, $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ or 2^{10} .

Record each multiplication and the pattern you see.

If you have time, you could keep going with another number.

