Shotton Hall Primary School
Working together to
S H I N E
Successful, **H**appy, **I**nspired and **N**urtured towards **E**xcellence
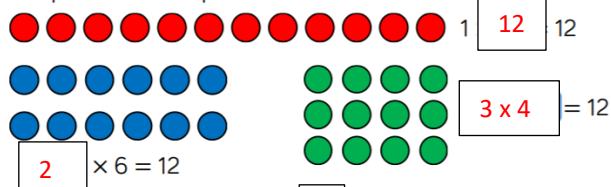
Year Four 1/6/20 Answers

Maths

We are continuing with our work on multiplication. Today I would like you to complete some work on factors. Remember factors are whole numbers which when multiplied together, make a product (answer). The best way to find factors are to work systematically and start with 1x?. See the additional resource for more help on factors.

Fluency

Complete the factor pairs for 12

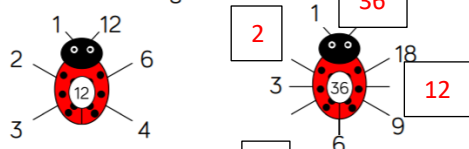1   **12**   12

3 x 4 = 12

2 × 6 = 12

12 has **3** factor pairs. 12 has **6** factors altogether.
Use counters to create arrays for 24
How many factor pairs can you find?

Here is an example of a factor bug for 12
Complete the factor bug for 36

1   12
2   6
3   4
12

1   **36**
2   18
3   **12**
4   9
6

Are all the factors in pairs?
Draw your own factor bugs for 16, 48, 56 and 35

16 – 1x16, 2x8, 4   48 – 1x48, 2x24, 3x16, 4x12, 6x8

56 – 1x56, 2x28, 4x14, 7x8   35 – 1x35, 5x7

Reasoning

Tommy says

The greater the number, the more factors it will have.

Is Tommy correct?
Use arrays to explain your answer.

Tommy is incorrect. Children explain by showing an example of two numbers where the greater number has less factors. For example, 15 has 4 factors 1, 3, 5 and 15
17 has 2 factors 1 and 17

Mastery

Some numbers are equal to the sum of all their factors (not including the number itself). e.g. 6 6 has 4 factors, 1, 2, 3 and 6 Add up all the factors not including 6 itself. 1 + 2 + 3 = 6 6 is equal to the sum of its factors (not including the number itself)

How many other numbers can you find that are equal to the sum of their factors? Which numbers are less than the sum of their factors? Which numbers are greater than the sum of their factors? Maybe use a table to sort your answers (less than/more than/equal to).

Possible answers 28 = 1 + 2 + 4 + 7 + 14 28 is equal to the sum of its factors. 12 < 1 + 2 + 3 + 4 + 6 12 is less than the sum of its factors. 8 > 1 + 2 + 4 8 is greater than the sum of its factors.

English

Hopefully you found a lot of these features by comparing the two texts and seeing what was the same. Here are the features of Greek myths.
There is a hero in the story (Perseus and Theseus are the heroes)
There is a monster (Medusa, the minotaur)
The hero has to face a test (kill Medusa, escape the labyrinth)
The hero has help (the wise king gave Perseus his sandals, Ariadne gave Theseus the string)
There are often kings and queens in the story who need a task to be done (there is a king in both stories)
The hero has to go on a quest (a journey to reach something)
The action moves quickly
There are good and evil characters

How many did you find?

Foundation Subject – D&T

I hope you enjoyed eating your Greek food!