Complete the factor pairs for 12

●●●●●●●●●●●● $1 \times \square = 12$

●●●●●●   ●●●●
●●●●●●   ●●●●
   $\square \times 6 = 12$ ●●●● $\square \times \square = 12$
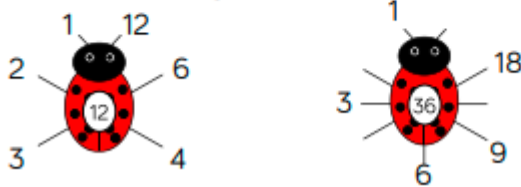   ●●●●

12 has ____ factor pairs. 12 has ____ 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

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

Tommy says

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

Is Tommy correct?

You should use trial and error methods to explain / find answers.

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?