Magic Maths

In this document is your maths work for the week, I would like you to complete this, plus spend at least ten minutes a day learning your Times Tables!

Times Tables Facts

LO: I Find the other related facts when given one times table multiplication or division fact.

 The related facts for 4x3=12 are…

3x4=12

12÷4=3

12÷3=4

How many times can you rearrange these number sentences to create related number facts?

4x4=16

3x2=6

7x3=21

4x5=20

8x6= 48

6 Eva is making groups of 9 on ten frames.
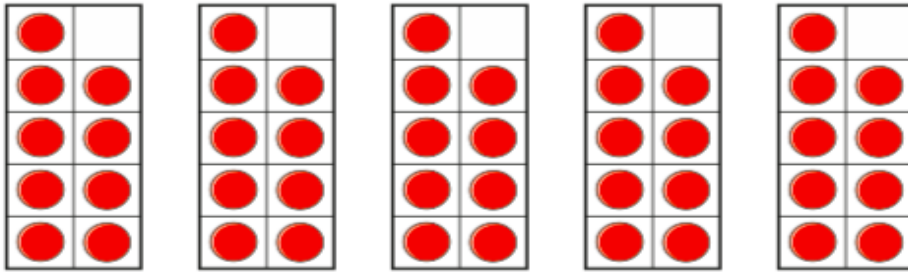
How can Eva work out how many counters she has altogether?

Compare your method with a partner.

7 Here is a number puzzle.

$$\square \times \square \times \triangle = 81$$

Find three different values of the square and triangle.

<u>Factors</u>

LO: I can find factors and pairs of factors of a number.

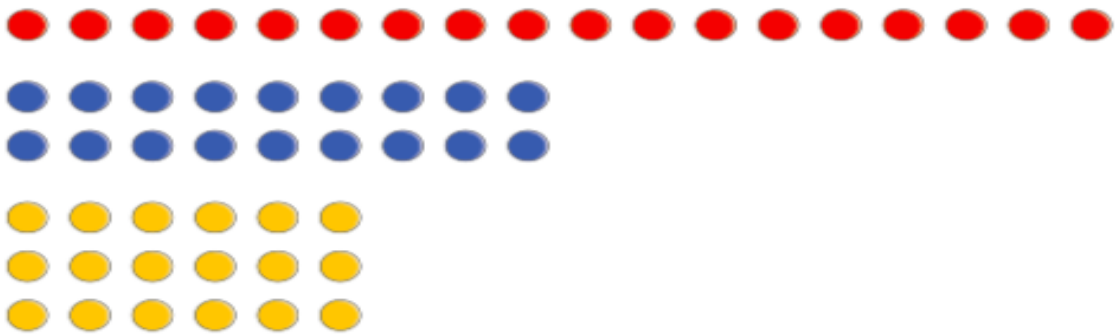A factor pair is two numbers that multiply together to make the given number.
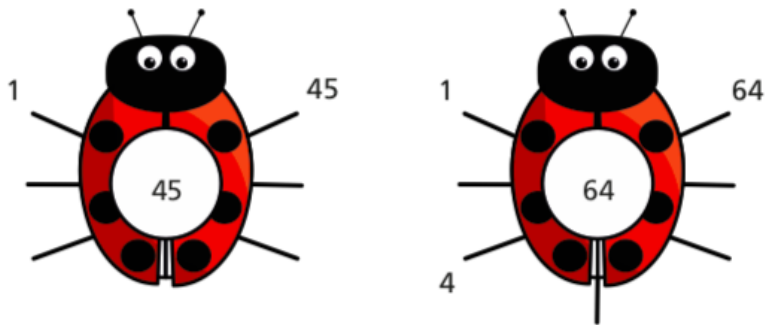
For example, the factor pairs for 12 are…
3,4
1,12
6,2

a) What calculation is represented in each array?

b) Use your answers from part a) to help you write all the factors of 18

3 Complete the factor bugs for 45 and 64

State all the factor pairs for the following numbers.

8
16
15
9
28
63

9 Rosie is investigating factor pairs.

> 6 is a perfect number because when you add its factors together, apart from itself, they equal 6

What is the next perfect number after 6?

7 Tommy is finding factors of 12 and 18

> 12 and 18 have the same number of factor pairs.

a) Is Tommy correct?

Explain your answer.

b) Find two other numbers with the same number of factor pairs.