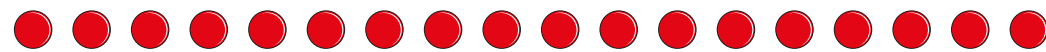


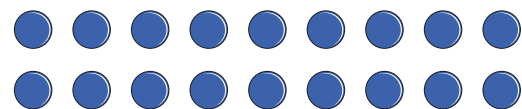
Factor pairs

1 Alex is making arrays using counters.

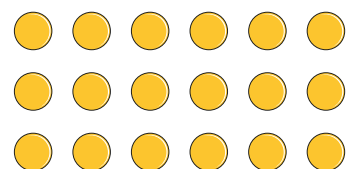
a) What calculation is represented in each array?



$$\square \times \square = 18$$



$$\square \times \square = 18$$



$$\square \times \square = 18$$

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

2 Use counters to make arrays and find the factor pairs for each number.

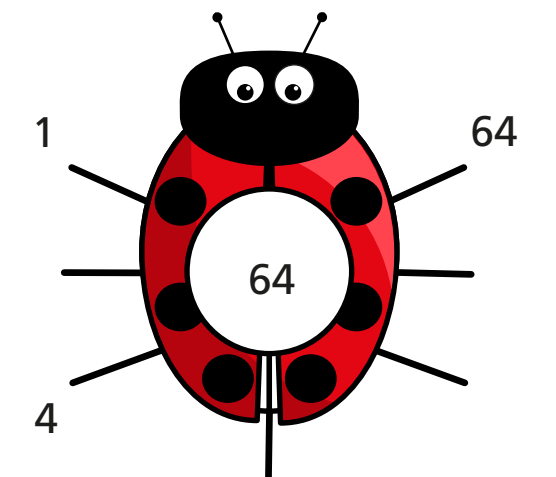
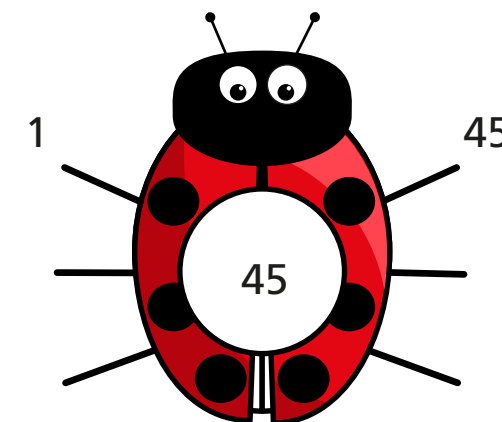
a) 12 _____

b) 15 _____

c) 24 _____

Which of the numbers has the most factor pairs? _____

3 Complete the factor bugs for 45 and 64



4 Find all the factor pairs for the number 72

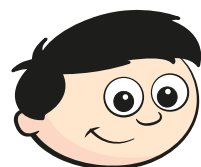
The factor pairs of 72 are _____

5 Are these statements true or false?

	True	False
8 and 2 are both factors of 10	☐	☐
5 and 50 are both factors of 50	☐	☐
25 has only three factors.	☐	☐
All the factors of 15 are odd.	☐	☐

Talk about your answers with a partner.

6



The bigger
the number the more
factor pairs it has.

Use examples to show that Dexter is wrong.

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.

8

Class 4B is having a sports day.

There are 36 children in the class.

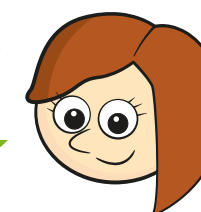
The children need to be in equal groups.

What group sizes are possible?

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?
