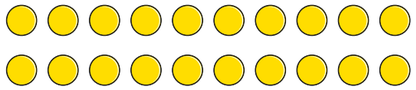
Factor pairs

White Rose MATHS

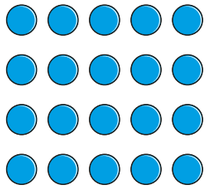
1 Dexter is using arrays to find the factor pairs of 20

a) Complete the multiplication shown by each array.

☐ × ☐ = 20



☐ × ☐ = 20



☐ × ☐ = 20

Explain why there are no other arrays that can be made using 20 counters.

b) Complete the sentences.

20 has ☐ factor pairs.

20 has ☐ factors altogether.

c) List all the factors of 20

_____

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

a) 22 _____

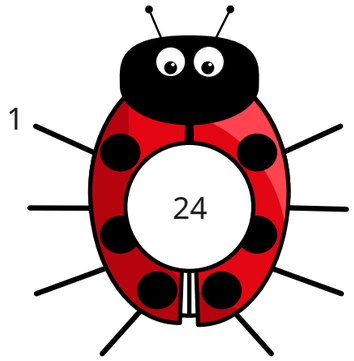
b) 12 _____

c) 35 _____

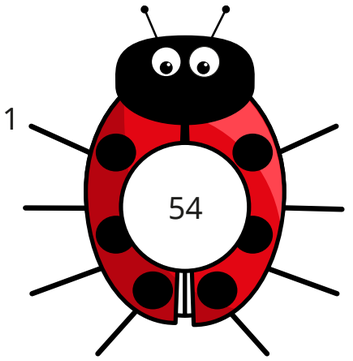
Which of the numbers has the most factor pairs? ☐

3 Complete the factor bugs.

a)



b)



4 **a)** Draw a factor bug for 32

b) List all the factors of 32

_____

5 Find all the factor pairs of each number.

a) 25 _____

b) 64 _____

c) 36 _____

What do you notice?

6 Are the statements true or false?

a) 10 and 5 are both factors of 15 _____

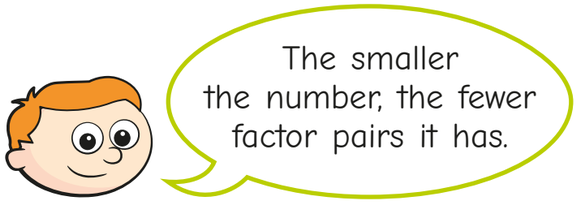
b) 50 has more factors than 42 _____

c) 60 has 6 factor pairs. _____

d) All the factors of 21 are odd. _____

Talk about your answers with a partner.

7



Use examples to show that Ron is incorrect.

_____

_____

_____

8 Years 3 and 4 are going on a school trip to the beach.

There are 40 children going altogether.

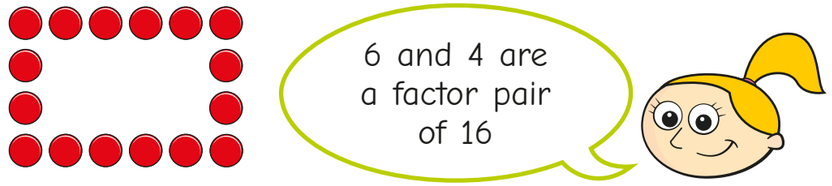
The children need to be in equal groups.

What group sizes are possible?

_____

_____

9 Eva has made an array using 16 counters.



Is Eva correct? _____

Explain your answer.

_____

_____

10

> 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?

_____