

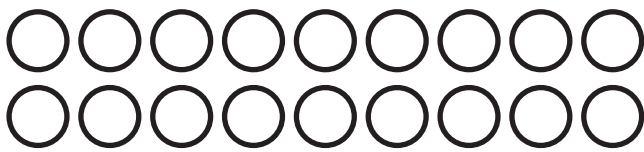
# Factor Pairs

To identify factor pairs of a number

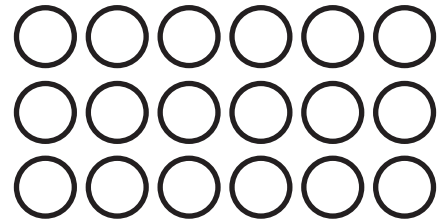
1) Complete the factor pairs for 18.



$$1 \times \square = 18$$



$$\square \times 9 = 18$$



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

2) Complete the factor pairs for 20.



$$\square \times \square = 20$$



$$\square \times \square = 20$$

$\square \times \square = 20$



There is one more way of making 20. Draw an array to find the third factor pair of 20.

# Factor Pairs

To identify factor pairs of a number



3) Complete the factor bugs to find all the factor pairs for each number below.

**6**

1

2

6

**8**

8

4

8

**12**

2

3

12

**18**

9

3

18

**22**

2

22

**24**

3

4

24

# Factor Pairs

To identify factor pairs of a number



1) Complete the factor bugs to find all the factor pairs for each number below.

**10**

A factor bug with the number 10 in its body. It has four empty circles for legs and two empty circles for antennae.

**12**

A factor bug with the number 12 in its body. It has six empty circles for legs and two empty circles for antennae.

**16**

A factor bug with the number 16 in its body. It has six empty circles for legs and two empty circles for antennae.

**18**

A factor bug with the number 18 in its body. It has six empty circles for legs and two empty circles for antennae.

**22**

A factor bug with the number 22 in its body. It has four empty circles for legs and two empty circles for antennae.

**40**

A factor bug with the number 40 in its body. It has eight empty circles for legs and two empty circles for antennae.

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To identify factor pairs of a number

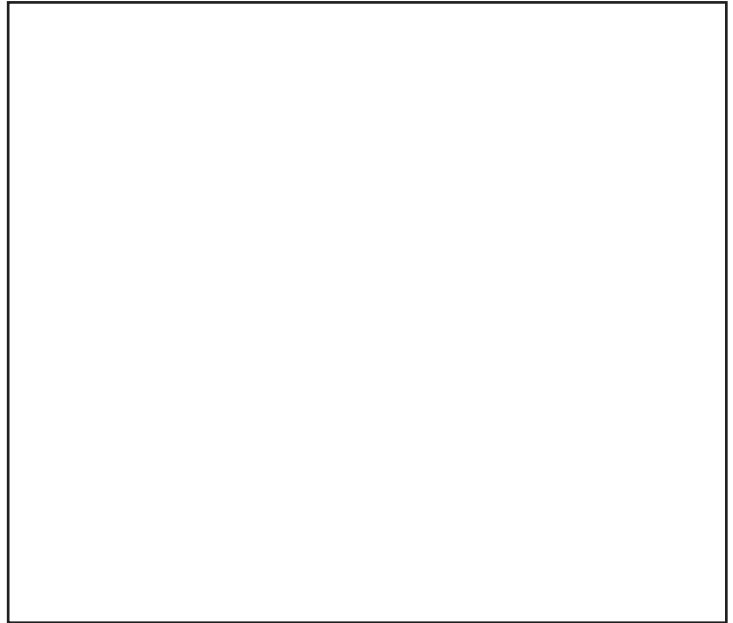
2) Veronika has been investigating factor pairs of 28.



Factor pairs of 28:

1 and 28

2 and 14



Veronika's findings are incorrect.

Draw a factor bug to show the correct method of finding all the factor pairs of 28.

3) A baker has made 20 cupcakes. He wants to pack them into a box. Which ways can the baker organise the cupcakes so that they fit evenly in the box?

a) Draw arrays to show all of the possible ways.



b) Write your findings as factors of 20.

# Factor Pairs

To identify factor pairs of a number



1) Complete the factor bugs to find all the factor pairs for each number below.

**24**

**32**

**64**

**77**

**80**

**100**

# Factor Pairs

To identify factor pairs of a number



2) Cemal has been investigating factor pairs.



The larger the number, the greater the amount of factor pairs.

Is Cemal's statement correct? Prove your answer in the box below.

3) Write always, sometimes or never next to the statements in the table.

Factors come in pairs	
1 is a factor of every number	
Whole numbers that are odd have 2 as a factor	
Whole numbers have an even number of factors	
Multiples of 10 have 5 and 10 as factors	