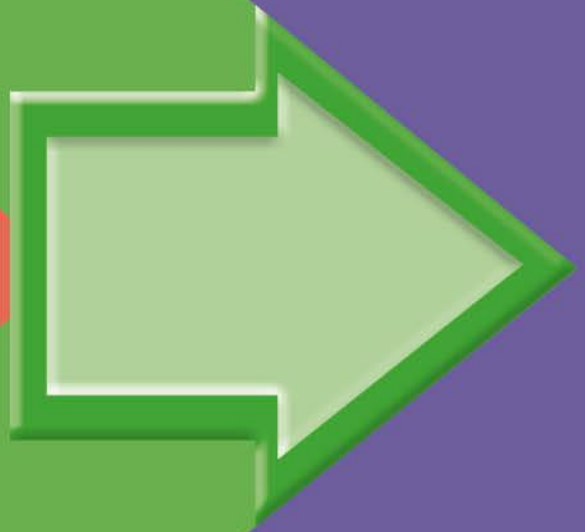
FACTORS



White Rose Maths

GET READY

White Rose Maths

1) What is the lowest common multiple of 5 and 8?

2) Which number is not a multiple of 9?

97 81 54 18

3) $___ \times 8 = 32$

4) $6 \times 3 = ___ - 8$

1) What is the lowest common multiple of 5 and 8? 40

2) Which number is not a multiple of 9?

97 81 54 18

3) $_4_ \times 8 = 32$

4) $6 \times 3 = _26_ - 8$

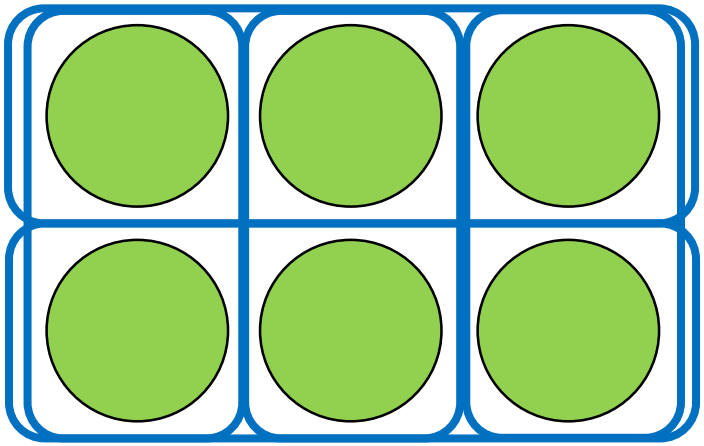
LET'S LEARN

White Rose Maths

A factor is a number that you _____ by another number to make a product.

A factor is a number that _____ exactly into another number.

What is a factor?



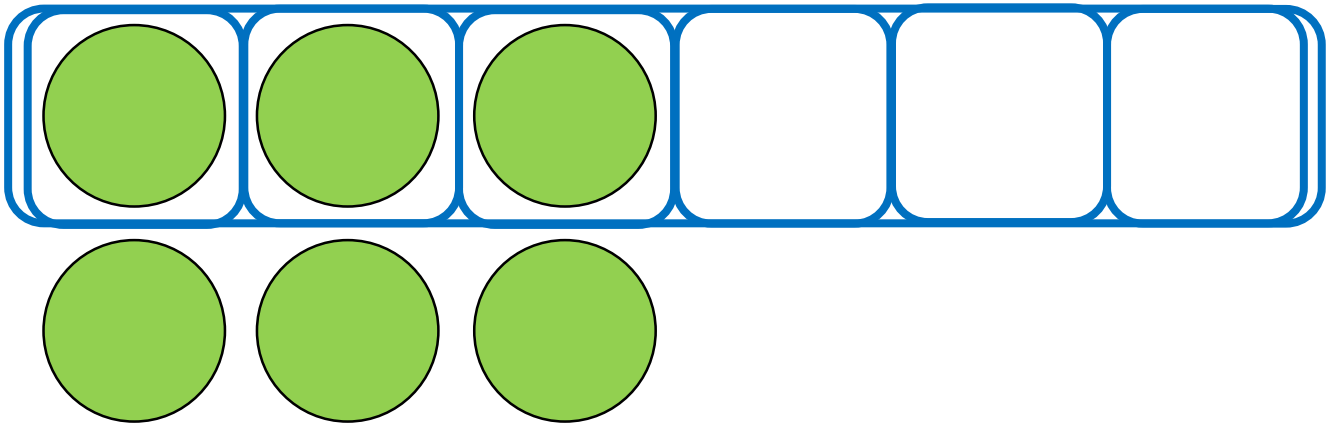
2 rows of 3 are equal to 6 $2 \times 3 = 6$

3 columns of 2 are equal to 6 $3 \times 2 = 6$

2 and 3 are factors of 6

Have a think

Are there any other factors of 6?

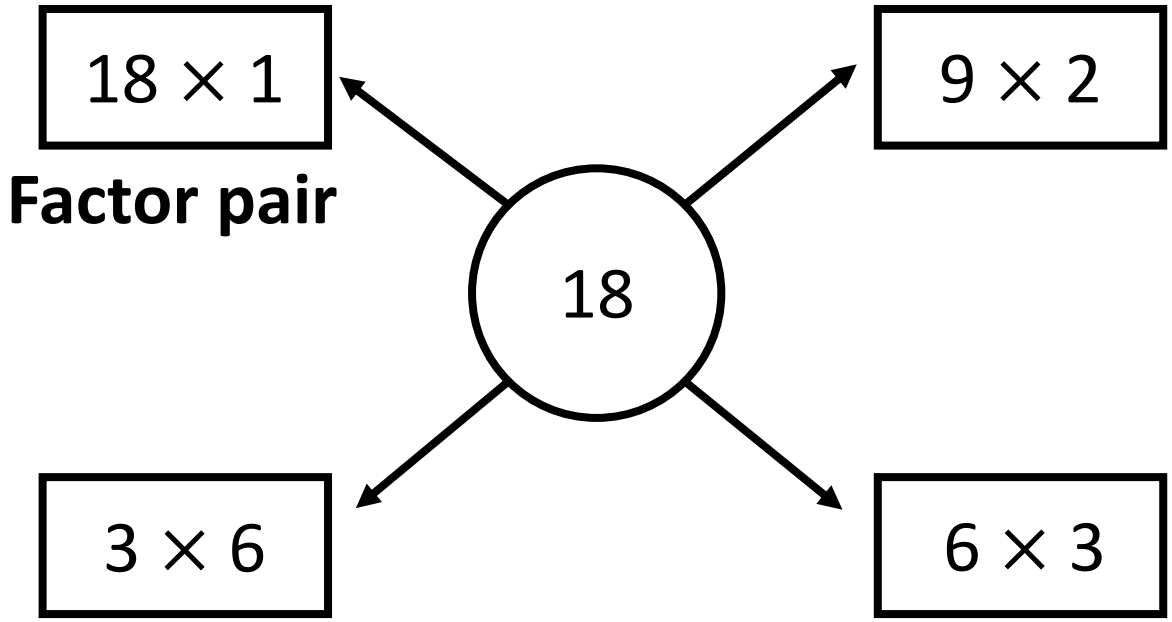


1 row of 6 is equal to 6 $1 \times 6 = 6$

6 columns of 1 are equal to 6 $6 \times 1 = 6$

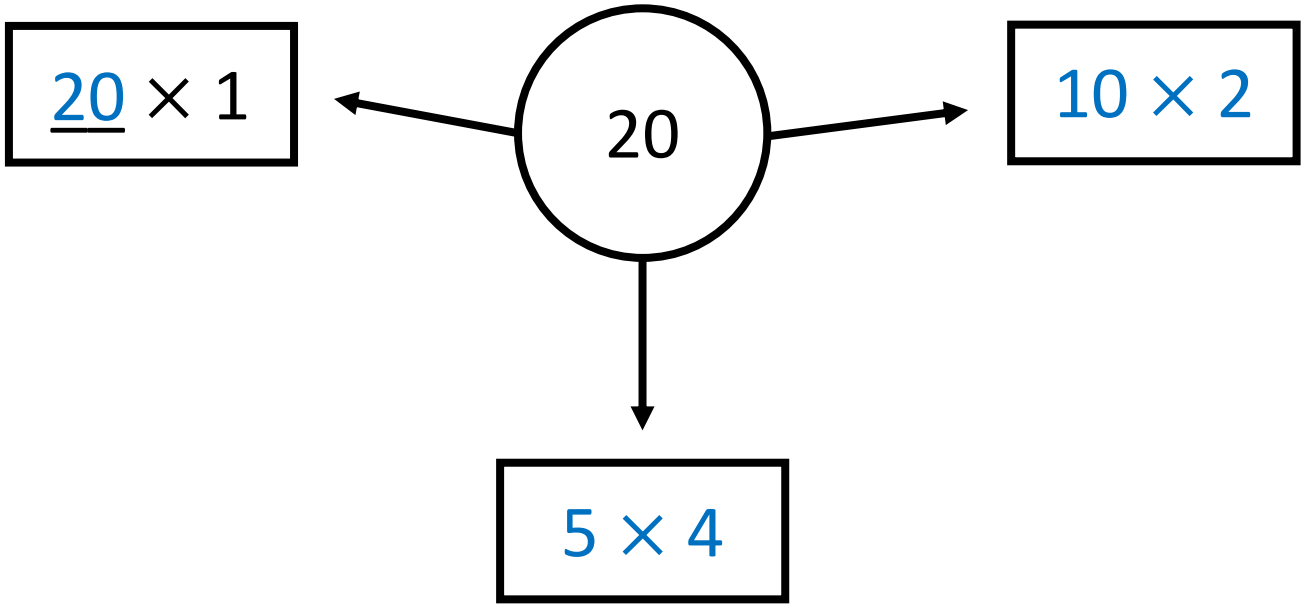
1 and 6 are factors of 6

The factors of 6 are: 1, 2, 3 and 6



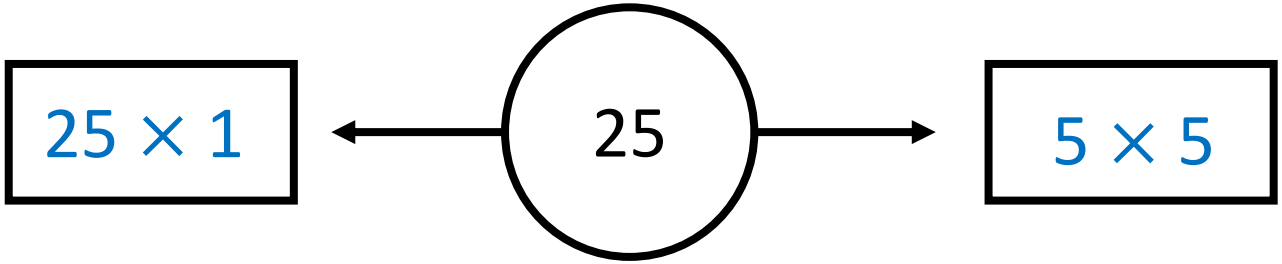
The factors of 18 are: 1, 2, 3, 6, 9 and 18

Have a think



The factors of 20 are: 1, 2, 4, 5, 10 and 20

Have a think



The factors of 25 are: 1, 5, and 25

90

Write all the factor pars for these numbers.

50

48

54

Any number which has 8 as a factor also has _____ and _____ as factors.

Any number which has 10 as a factor also has _____ and _____ as factors.

YOUR TURN

Have a go at questions 1 to 4 on the worksheet

White Rose Maths

1, 3 and 7 are all factors of a number between 40 and 50

Have a think

What is the number? 42

The number must be a multiple of **3** and **7**

3	24
6	27
9	30
12	33
15	36
18	
21	

7	56
14	63
21	70
28	77
35	84
42	
49	

List the factors of these numbers:

Have a think

2 1 and 2

5 1 and 5

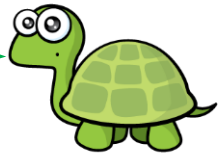
17 1 and 17

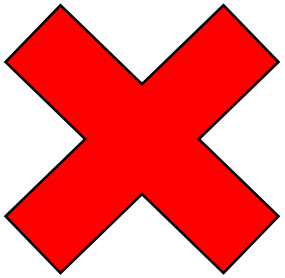
29 1 and 29

What do you notice?

They all only have 2 factors

$0.5 \times 22 = 11$
This means that 0.5 is a factor of 11





Factors have to be integers (whole numbers).

Have a think

What are the factors of 11?

1 and 11

YOUR TURN

Have a go at questions 5 to 9 on the worksheet

White Rose Maths