To know what a factor is and how to find the factors of a given number.

Miss Vivian's group

Find the factors of these numbers:

10= 10, 1, 5,2

15= 15,1,3,5

3= 1,3

20= 20,1,10,2,5,4

18= 18,1,9,2,6,3

25= 25,1,5

27= 27,1,9,3

12= 12,1,6,2,3,4

Now try these (I haven't told you how many factors there are).

21= 21,1,3,7

31=31,1

49=49,1,7

To know what a factor is and how to find the factors of a given number.

Mrs Adams' Group

Find the factors of these numbers:

28= 28,1,4,7,14,2

125= 125,1,25,5

72= 72,1,36,2,3,24,4,18,6,12, 8,9

Now try these (I haven't told you how many factors there are).

42=42,1,21,2,3,14,6,7

56= 1,56,2,28,4,14,7,8

64=1,64,2,32,4,16,8

40= 1,40,2,20,4,10,5,8

Find the factors of these numbers.

23=1,23

47=1,47

11=1,11

Can you do Miss Harris' group work?

What do you notice about these numbers? Write your answer here:

These numbers only have two factors – 1 and itself.

To know what a factor is and how to find the factors of a given number.

Miss Harris' Group

List all the factors of

a) 12 1,12,2,6,3,4
b) 24 1,24,2,12,3,8,4,6
c) 17 1,17
d) 58 1,58,2,29
e) 112 1,112,2,56,4,28,7,16,8,14
f) 74 1,74,2,37
g) 81 1,81,3,17,9

List the factors of

a) 7 1,7
b) 11 1,11
c) 17 1,17
d) 23 1,23
e) 47 1,47

What do you notice about these numbers?

These numbers only have two factors – 1 and itself.

Find out what these numbers are called. Prime Numbers

Find the highest common factor (HCF) of the following sets of numbers.

a) 12 and 18 = 6
b) 24 and 30 = 6
c) 40 and 120 = 40
d) 15, 30 and 45 = 15

Challenge – In ascending order (getting higher) how many Prime numbers can you list?

I Googled it!

The **first 50 prime numbers** are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229.