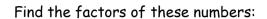
To know what a factor is and how to find the factors of a given number.





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

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 What do you notice about these 40= 1,40,2,20,4,10,5,8 numbers? Write your answer here: Find the factors of these numbers. These numbers only have two factors – 1 and itself. 23=1,23 47=1,47 11=1,11 Can you do Miss Harris' group work?

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

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.