

# Prime factors

Mathematics

Mr. Maseko



## Try this

14 has exactly 2 **prime factors**: 2 and 7

How many other numbers can you find with exactly 2 prime factors?

How many prime factors does 12 have?



# Connect

## Prime factors

What is the smallest number with 2 prime factors?

What about 3 prime factors?

What about 10 prime factors?



# Independent task

1) List all the factors for the following numbers

a) 18              b) 49              c) 100              d) 60

2) How many prime factors do the following numbers have?

18, 20, 22, 24, 26, 28,

3) What is the smallest number with 4 prime factors?

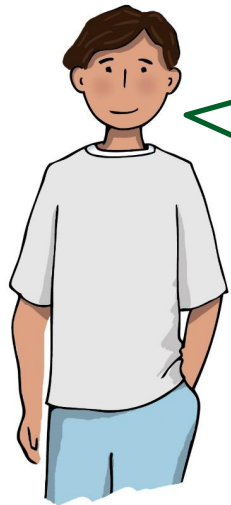


## Try this

1) List the prime factors of every even number between 2 and 30?

What do you notice?

Why is 2 the only even prime number?



I can write 12 as a  
product of prime  
numbers:  
 $2 \times 2 \times 3$

2) Write another number using only prime numbers.

Is there any number apart from the prime numbers that cannot be written as a product of prime numbers?

