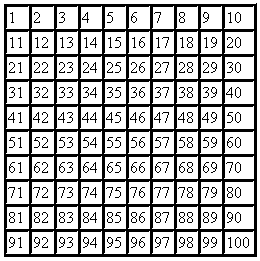
**Can you circle all the prime numbers on this grid ?**



(Hint – a prime number can only be divided by itself and 1…..is 1 itself a prime number ?)

What method did you use ?

Can you work out what the next number would be ?

Is there a pattern ?

How many prime numbers are there ?

**Solutions ;**

Colour in all the numbers which are not prime……

1) Colour number 1, because all primes are greater than 1.

2) Number 2 is a prime, so we can keep it, but we need to colour all the multiples of 2 (i.e. even numbers).

3) Number 3 is also a prime, so again we keep it and colour all the multiples of 3.

4) The next number left is 5 (because four has been crossed off), so we keep it and colour all the multiples of this number.

5) The final number left in the first row is number 7 (it is prime so keep it), so colour all the multiples of 7.

6) You have finished. All of the "surviving" numbers which you haven’t coloured on your grid are prime numbers.

OR

**Sieve of Eratosthenes**

Cross out one, as this is not a prime.

Move to two – the first prime number. Now cross out every second number after that.

The next number not crossed out is three, which is a prime number. Now cross out every third number after three.

Four has already gone, carry on with 5 and 7 – now all the non prime numbers between one and one hundred have been crossed out.