Divisibility Rules

A number is divisible by:	If…	Example
2	The last digit is even (0,2,4,6,8)	5,734,12**8 Yes** 62,40**9 No**
3	The sum of the digits is divisible by 3	381 (3+8+1=12) **Yes** 2,107 (2+1+0+7=10) **No**
4	The last 2 digits are divisible by 4	51,3**12 Yes** 7,0**19 No**
5	The last digit is 0 or 5	3,17**5 Yes** 52,80**9 No**
6	it is divisible by 2 *and* divisible by 3.	114 (it is even, and 1+1+4=6) **Yes** 308 (it is even, but 3+0+8=11) **No**
7	You double the last digit, then subtract it from the remaining digits of the number and the answer is: **0**, or a **multiple of 7**	672 (Double 2 is 4, 67-4=63) **Yes** 905 (Double 5 is 10, 90-10=80)**No**
8	The last three digits are divisible by 8	109,**816** (816÷8=102) **Yes** 8,216,**302** (302÷8=37 $^{3}/_{4}$) **No**
9	The sum of the digits is divisible by 9	1,629 (1+6+2+9=18) **Yes** 52,013 (5+2+0+1+3=11) **No**
10	The number ends in 0	53,22**0 Yes** 634,22**1 No**
11	If you alternately subtract and add all of the digits from left to right and the answer is: **0**, or a **multiple of 11**	1**36****4** (1-3+6-4 = 0) **Yes** 64812 (6-4+8-1+2 = 11) **Yes** 632 (6-3+2 = 5) **No**
12	The number is divisible by both 3 *and* 4	6**48** (6+4+8=18) **Yes** 9**16** (9+1+6=16) **No**

First 25 Prime Numbers (Primes under 100)

2	13	31	53	73
3	17	37	59	79
5	19	41	61	83
7	23	43	67	89
11	29	47	71	97