Prime Search

All the prime numbers from 1 to 100 are listed below.

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

1 **Find the prime numbers from 101 to 200.**

- First draw a line through all the multiples of 2.
- Then draw a line through all the multiples of 3, then all the multiples of 5, and continue until you have drawn lines through all the multiples of prime numbers less than 100.
- The remaining numbers are the prime numbers from 101 to 200. List these below the table.

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

2 The number 143 has two lines through it, first as a multiple of 11 and second as a multiple of 13; so, 143 is the product of two prime numbers. Find another number that is the product of two different prime numbers greater than 7.

3 **Explain** how you can find all the prime numbers from 201 to 1,000.