



# Prime Numbers

Prime numbers are those numbers (greater than 1) that cannot be divided by any number except themselves and one.

In other words, prime numbers are not in any other times tables!

**1, 17, 47, 83, 53**

# Prime Numbers up to 100

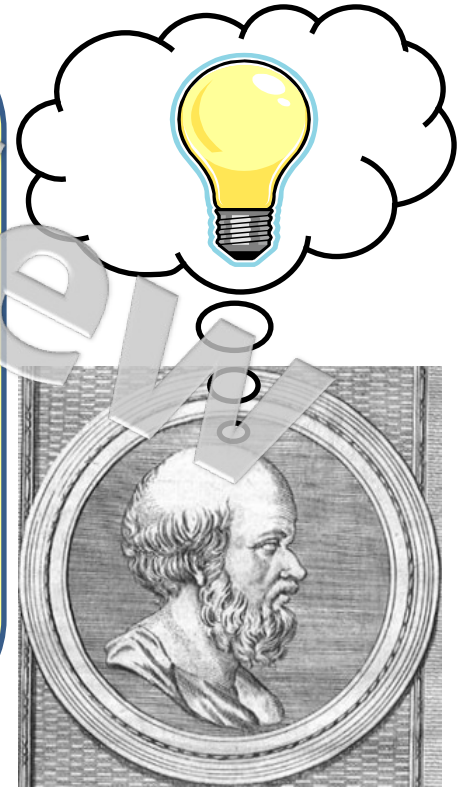
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Click to  
reveal



The Greek Eratosthenes created a method to find out these prime numbers up to 100.

- 1) Write out the numbers from 1 to 100 in ten rows of 10.
- 2) Cross off number 1, because all primes are greater than 1.
- 3) Number 2 is a prime, so we can keep it, but we need to cross off the multiples of 2 (i.e. even numbers).





4) Number 3 is also a prime, so again we keep it and cross off the multiples of 3.

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

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

6) The final number left in the first row is number 7, so cross off its multiples. The prime numbers are left!



# Test Your Understanding!

*Circle the prime numbers*



4

7

12

15

19

Click to reveal

12

16

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23

27

Click to reveal

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43

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47

49

Click to reveal