

## Primes, &amp; Factoring

To find the prime numbers between 1 and 100 circle 2 and cross out all the numbers in the list that are multiples of 2. Next circle 3 and cross out all the multiples of 3. Continue this way until only the circled numbers remain. These are the **PRIME NUMBERS**

	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

Now, that we know which are the prime numbers lets do the prime factorization of the following numbers. A calculator may be helpful.

(1) 16

(2) 34

(3) 69

(4) 65

(5) 75

(6) 88

(7) 27

(8) 54

(9) 99

(10) 120

(11) 104

(12) 128

(13) 125

(14) 200

(15) 450

(16) 476

(17) 1089

(18) 840

(19) 782

(20) 2310

Find the prime factorization of each number. Show all your work.

(1) 8

(2) 12

(3) 24

(4) 36

(5) 48

(6) 60

(7) 88

(8) 84

(9) 96

(10) 56

(11) 32

(12) 28

(13) 76

(14) 72

(15) 90

(16) 27

(17) 45

(18) 54

(19) 99

(20) 124