PRIME NUMBERS ARE THE ESSENTIAL BUILDING BLOCKS OF ALL NUMBERS.

EVERY POSITIVE NUMBER OTHER THAN ONE IS THE PRODUCT (the answer when you multiply numbers) OF PRIME NUMBERS.

DEFINITION OF ***PRIME NUMBERS***:

- positive integer (like 2,3,5,7,11,13,17,19,23,...)
- exactly two positive integer factors (1 and itself)
- one is not prime because it has only one factor

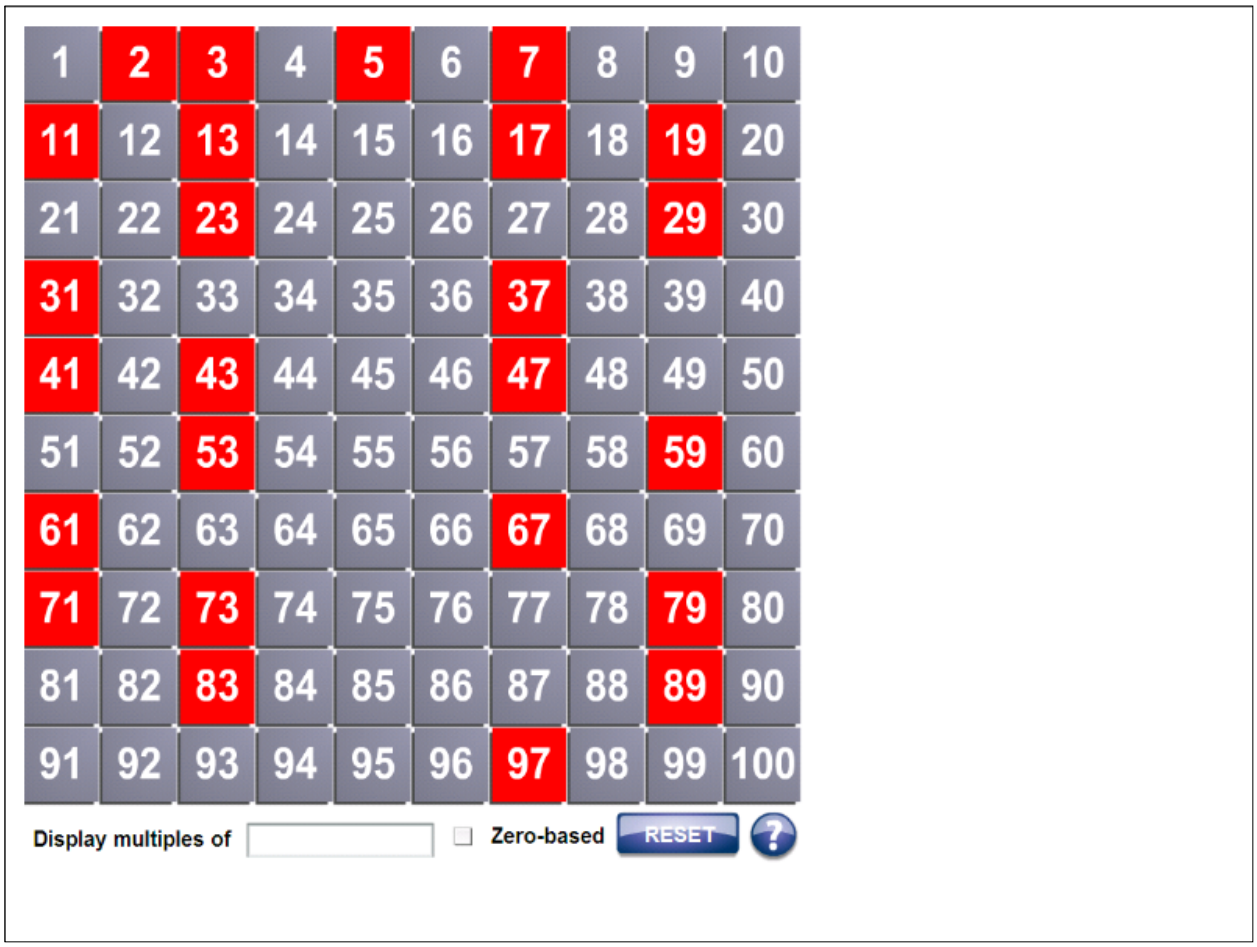
WHEN A NUMBER HAS MORE THAN ONE FACTOR IT IS A:

COMPOSITE NUMBER,

like 4, 6, 8 and all even numbers
like 9, 15, 21 and all multiples of 3
like 25, 35, 45 and all multiples of 5
like 49, 91 and all multiples of 7
like any number with more than two factors.

1	2	3	4	5	6	7	8	9	10
1 1	1 2	1 3	1 4	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

try to eliminate all of the numbers that are NOT PRIME and you should be left with 25 prime numbers among the first 100 numbers.


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
Display multiples of
Zero-based
RESET

Fun facts: (ANSWERS ON NEXT PAGE)

- the sum of the first 9 prime numbers is _____
- the sum of the first 25 prime numbers is _____
- the product of the first 9 prime numbers is _____
- and along the way, there are some pretty interesting products of:

2 x 3 =
x 5 =
x 7 =
x11 =
x13 =
x17 =
x19 =
x23 =

- the sum of the first 9 non-prime numbers is nothing interesting, but it is prime.

Fun facts:

- the sum of the first 9 prime numbers is **100**
- the sum of the first 25 prime numbers is **1,060**
- the product of the first 9 prime numbers is **223,092,870**
- and along the way, there are some pretty interesting products of:

2 x 3 = 6
x 5 = 30
x 7 = 210
x11 = 2,310
x13 = 30,030
x17 = 510,510
x19 = 9,699,690
x23 = 223,092,870

- the sum of the first 9 non-prime numbers is nothing interesting, but it is prime: **79**