

The 25 Primes from 1—100							
Notes	Tens Place	Ones Place				# of Primes	Quick Rule
		1	3	7	9		
The rows for 0 and 1 tens each have 4 primes ( <b>2, 3, 5, 7</b> for the 0 tens row and all of the 1 ten row: <b>11, 13, 17, 19</b> ).	<b>0</b>	( <b>2</b> )	x	x	( <b>5</b> )	4	<b>0 and 1:</b> 4 primes each
	<b>1</b>	x	x	x	x	4	
The rows for 2 and 3 tens each have 2 primes, every 2nd number for the 2 tens row ( <b>23, 29</b> ) and the opposite ones for the 3 tens row ( <b>31, 37</b> ).	<b>2</b>		x		x	2	<b>2:</b> Every 2 <sup>nd</sup> one <b>3:</b> Opposite of 2
	<b>3</b>	x		x		2	
The row for 4 tens has all primes but the last one ( <b>41, 43, 47</b> ).	<b>4</b>	x	x	x		3	<b>4:</b> All but the last one
The rows for 5 and 6 tens repeat the pattern of the rows for 2 and 3 tens ( <b>53, 59</b> and <b>61, 67</b> ).	<b>5</b>		x		x	2	<b>5 and 6:</b> Like 2 and 3
	<b>6</b>	x		x		2	
The row for 7 tens has all primes except for 7 ( <b>71, 73, 79</b> ).	<b>7</b>	x	x		x	3	<b>7:</b> All but 7
The row for 8 tens is like the row for 2 tens ( <b>83, 89</b> ).	<b>8</b>		x		x	2	<b>8:</b> Like 2
The row for 9 tens has 1 prime that falls between the 2 primes on the row for 8 tens ( <b>97</b> ).	<b>9</b>			x		1	<b>9:</b> 97

It's nice to know the number of primes per tens row for certain types of questions:

**How many primes are less than 50?** It's much faster to just add **4 (0 tens) + 4 (1 ten) + 2 (2 tens) + 2 (3 tens) + 3 (4 tens) = 15** primes than it is to write the primes down and count them.

**How many primes are between 70 and 100?** is just as easy: **3 (7 tens) + 2 (8 tens) + 1 (9 tens) = 6** primes.

**What is the median of the first 25 primes?** just involves figuring out the 13<sup>th</sup> prime: **4 (0 tens) + 4 (1 ten) + 2 (2 tens) + 2 (3 tens) = 12** primes, so it must be the first prime on the 4 tens row, **41**.

Prime Numbers 1 - 2499 (primes 2 & 5 not shown)

	0	2	1	100s	5	7	6	10	11	15	16	20	21
	3	4			8	9		12	14	18	19	23	24
	1	3	7	100s	1	3	7	1	3	7	9	1	3
	9				9			9				9	
0	.	.	.	.	.	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.	.	.	.	.	.
4	.	.	.	.	.	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.	.	.	.	.	.	.
8	.	.	.	.	.	.	.	.	.	.	.	.	.
9	.	.	.	.	.	.	.	.	.	.	.	.	.