How to Use a Factor Table

This table shows the first and smallest factor for numbers up to 5,000. Some numbers are prime -- they have no factors (other than '1' and themselves). Prime numbers are shown with a double-dot: "..".

Here's how to find a number in the table. Use the *left*-most column to find the row containing your number of hundreds. Use the *top*-most row to find the column containing your tens and ones digits. The row and column will connect at the cell containing your number.

Because the table is so wide, it has been split into two parts. The first part is for numbers ending in 00 through 49. The second part is for numbers ending in 50 through 99. You will find it convenient to print the two tables and place them on facing pages.

You probably noticed that some columns are missing. To save space, numbers are not shown if they have an obvious factor:

- Columns for numbers divisible by 2 are not shown. You don't need a table to identify the "even" numbers, so this table only shows the "odd" numbers.

- Columns for numbers divisible by 5 and 10 are not shown. If you need to factor a number ending in zero or five, then divide it by the obvious factor and proceed with finding the next factor.

Example: Suppose you want all the prime factors of 1122:

1. This is an even number, so the first factor is 2.
2. 1122 / 2 = 561. The next number to look up is 561.

3. Go to row 5 (for 500) and column 61.
4. You see “3”, so the next factor is 3.
5. 561 / 3 = 187. The next number to look up is 187.

6. Go to row 1 (for 100) and column 87.
7. You see “11”, so the next factor is 11.
8. 187 / 11 = 13. The next number to look up is 13.

9. Go to row 0 (for numbers under 100) and column 13.
10. You see “..” so you know 13 is prime, and therefore the last factor is 13. That’s all!

Prime Number Factor Table

	1	3	7	9	11	13	17	19	21	23	27	29	31	33	37	39	41	43	47	49
0	. .	. .	. .	3	. .	. .	. .	. .	3	. .	3	. .	. .	3	. .	3	. .	. .	. .	7
100	. .	. .	. .	. .	3	. .	3	7	11	3	. .	3	. .	7	. .	. .	3	11	3	. .
200	3	7	3	11	. .	3	7	3	13	. .	. .	. .	3	. .	3	. .	. .	3	13	3
300	7	3	. .	3	. .	. .	. .	11	3	17	3	7	. .	3	. .	3	11	7	. .	. .
400	. .	13	11	. .	3	7	3	. .	. .	3	7	3	. .	. .	19	. .	3	. .	3	. .
500	3	. .	3	. .	7	3	11	3	. .	. .	17	23	3	13	3	7	. .	3	. .	3
600	. .	3	. .	3	13	. .	. .	. .	3	7	3	17	. .	3	7	3	. .	. .	. .	11
700	. .	19	7	. .	3	23	3	. .	7	3	. .	3	17	. .	11	. .	3	. .	3	7
800	3	11	3	. .	. .	3	19	3	. .	. .	. .	. .	3	7	3	. .	29	3	7	3
900	17	3	. .	3	. .	11	7	. .	3	13	3	. .	7	3	. .	3	. .	23	. .	13
1,000	7	17	19	. .	3	. .	3	. .	. .	3	13	3	. .	. .	17	. .	3	7	3	. .
1,100	3	. .	3	. .	11	3	. .	3	19	. .	7	. .	3	11	3	17	7	3	31	3
1,200	. .	3	17	3	7	. .	. .	23	3	. .	3	. .	. .	3	. .	3	17	11	29	. .
1,300	. .	. .	. .	7	3	13	3	. .	. .	3	. .	3	11	31	7	13	3	17	3	19
1,400	3	23	3	. .	17	3	13	3	7	. .	. .	. .	3	. .	3	. .	11	3	. .	3
1,500	19	3	11	3	. .	17	37	7	3	. .	3	11	. .	3	29	3	23	. .	7	. .
1,600	. .	7	. .	. .	3	. .	3	. .	. .	3	. .	3	7	23	. .	11	3	31	3	17
1,700	3	13	3	. .	29	3	17	3	. .	. .	11	7	3	. .	3	37	. .	3	. .	3
1,800	. .	3	13	3	. .	7	23	17	3	. .	3	31	. .	3	11	3	7	19	. .	43
1,900	. .	11	. .	23	3	. .	3	19	17	3	41	3	. .	. .	13	7	3	29	3	. .
2,000	3	. .	3	7	. .	3	. .	3	43	7	. .	. .	3	19	3	. .	13	3	23	3
2,100	11	3	7	3	. .	. .	29	13	3	11	3	. .	. .	3	. .	3	. .	. .	19	7
2,200	31	. .	. .	47	3	. .	3	7	. .	3	17	3	23	7	. .	. .	3	. .	3	13
2,300	3	7	3	. .	. .	3	7	3	11	23	13	17	3	. .	3	. .	. .	3	. .	3
2,400	7	3	29	3	. .	19	. .	41	3	. .	3	7	11	3	. .	3	. .	7	. .	31
2,500	41	. .	23	13	3	7	3	11	. .	3	7	3	. .	17	43	. .	3	. .	3	. .
2,600	3	19	3	. .	7	3	. .	3	. .	43	37	11	3	. .	3	7	19	3	. .	3
2,700	37	3	. .	3	. .	. .	11	. .	3	7	3	. .	. .	3	7	3	. .	13	41	. .
2,800	. .	. .	7	53	3	29	3	. .	7	3	11	3	19	. .	. .	17	3	. .	3	7
2,900	3	. .	3	. .	41	3	. .	3	23	37	. .	29	3	7	3	. .	17	3	7	3
3,000	. .	3	31	3	. .	23	7	. .	3	. .	3	13	7	3	. .	3	. .	17	11	. .
3,100	7	29	13	. .	3	11	3	. .	. .	3	53	3	31	13	. .	43	3	7	3	47
3,200	3	. .	3	. .	13	3	. .	3	. .	11	7	. .	3	53	3	41	7	3	17	3
3,300	. .	3	. .	3	7	. .	31	. .	3	. .	3	. .	. .	3	47	3	13	. .	. .	17
3,400	19	41	. .	7	3	. .	3	13	11	3	23	3	47	. .	7	19	3	11	3	. .
3,500	3	31	3	11	. .	3	. .	3	7	13	. .	. .	3	. .	3	. .	. .	3	. .	3
3,600	13	3	. .	3	23	. .	. .	7	3	. .	3	19	. .	3	. .	3	11	. .	7	41
3,700	. .	7	11	. .	3	47	3	. .	61	3	. .	3	7	. .	37	. .	3	19	3	23
3,800	3	. .	3	13	37	3	11	3	. .	. .	43	7	3	. .	3	11	23	3	. .	3
3,900	47	3	. .	3	. .	7	. .	. .	3	. .	3	. .	. .	3	31	3	7	. .	. .	11
4,000	. .	. .	. .	19	3	. .	3	. .	. .	3	. .	3	29	37	11	7	3	13	3	. .
4,100	3	11	3	7	. .	3	23	3	13	7	. .	. .	3	. .	3	. .	41	3	11	3
4,200	. .	3	7	3	. .	11	. .	. .	3	41	3	. .	. .	3	19	3	. .	. .	31	7
4,300	11	13	59	31	3	19	3	7	29	3	. .	3	61	7	. .	. .	3	43	3	. .
4,400	3	7	3	. .	11	3	7	3	. .	. .	19	43	3	11	3	23	. .	3	. .	3
4,500	7	3	. .	3	13	. .	. .	. .	3	. .	3	7	23	3	13	3	19	7	. .	. .
4,600	43	. .	17	11	3	7	3	31	. .	3	7	3	11	41	. .	. .	3	. .	3	. .
4,700	3	. .	3	17	7	3	53	3	. .	. .	29	. .	3	. .	3	7	11	3	47	3
4,800	. .	3	11	3	17	. .	. .	61	3	7	3	11	. .	3	7	3	47	29	37	13
4,900	13	. .	7	. .	3	17	3	. .	7	3	13	3	. .	. .	. .	11	3	. .	3	7

Prime Number Factor Tables - cont'd

	51	53	57	59	61	63	67	69	71	73	77	79	81	83	87	89	91	93	97	99
0	3	. .	3	. .	. .	3	. .	3	. .	. .	7	. .	3	. .	3	. .	7	3	. .	3
100	. .	3	. .	3	7	. .	. .	13	3	. .	3	. .	. .	3	11	3	. .	. .	. .	. .
200	. .	11	. .	7	3	. .	3	. .	. .	3	. .	3	. .	. .	7	17	3	. .	3	13
300	3	. .	3	. .	19	3	. .	3	7	. .	13	. .	3	. .	3	. .	17	3	. .	3
400	11	3	. .	3	. .	. .	. .	7	3	11	3	. .	13	3	. .	3	. .	17	7	. .
500	19	7	. .	13	3	. .	3	. .	. .	3	. .	3	7	11	. .	19	3	. .	3	. .
600	3	. .	3	. .	. .	3	23	3	11	. .	. .	7	3	. .	3	13	. .	3	17	3
700	. .	3	. .	3	. .	7	13	. .	3	. .	3	19	11	3	. .	3	7	13	. .	17
800	23	. .	. .	. .	3	. .	3	11	13	3	. .	3	. .	. .	. .	7	3	19	3	29
900	3	. .	3	7	31	3	. .	3	. .	7	. .	11	3	. .	3	23	. .	3	. .	3
1,000	. .	3	7	3	. .	. .	11	. .	3	29	3	13	23	3	. .	3	. .	. .	. .	7
1,100	. .	. .	13	19	3	. .	3	7	. .	3	11	3	. .	7	. .	29	3	. .	3	11
1,200	3	7	3	. .	13	3	7	3	31	19	. .	. .	3	. .	3	. .	. .	3	. .	3
1,300	7	3	23	3	. .	29	. .	37	3	. .	3	7	. .	3	19	3	13	7	11	. .
1,400	. .	. .	31	. .	3	7	3	13	. .	3	7	3	. .	. .	. .	. .	3	. .	3	. .
1,500	3	. .	3	. .	7	3	. .	3	. .	11	19	. .	3	. .	3	7	37	3	. .	3
1,600	13	3	. .	3	11	. .	. .	. .	3	7	3	23	41	3	7	3	19	. .	. .	. .
1,700	17	. .	7	. .	3	41	3	29	7	3	. .	3	13	. .	. .	. .	3	11	3	7
1,800	3	17	3	11	. .	3	. .	3	. .	. .	. .	. .	3	7	3	. .	31	3	7	3
1,900	. .	3	19	3	37	13	7	11	3	. .	3	. .	7	3	. .	3	11	. .	. .	. .
2,000	7	. .	11	29	3	. .	3	. .	19	3	31	3	. .	. .	. .	. .	3	7	3	. .
2,100	3	. .	3	17	. .	3	11	3	13	41	7	. .	3	37	3	11	7	3	13	3
2,200	. .	3	37	3	7	31	. .	. .	3	. .	3	43	. .	3	. .	3	29	. .	. .	11
2,300	. .	13	. .	7	3	17	3	23	. .	3	. .	3	. .	. .	7	. .	3	. .	3	. .
2,400	3	11	3	. .	23	3	. .	3	7	. .	. .	37	3	13	3	19	47	3	11	3
2,500	. .	3	. .	3	13	11	17	7	3	31	3	. .	29	3	13	3	. .	. .	7	23
2,600	11	7	. .	. .	3	. .	3	17	. .	3	. .	3	7	. .	. .	. .	3	. .	3	. .
2,700	3	. .	3	31	11	3	. .	3	17	47	. .	7	3	11	3	. .	. .	3	. .	3
2,800	. .	3	. .	3	. .	7	47	19	3	13	3	. .	43	3	. .	3	7	11	. .	13
2,900	13	. .	. .	11	3	. .	3	. .	. .	3	13	3	11	19	29	7	3	41	3	. .
3,000	3	43	3	7	. .	3	. .	3	37	7	17	. .	3	. .	3	. .	11	3	19	3
3,100	23	3	7	3	29	. .	. .	. .	3	19	3	11	. .	3	. .	3	. .	31	23	7
3,200	. .	. .	. .	. .	3	13	3	7	. .	3	29	3	17	7	19	11	3	37	3	. .
3,300	3	7	3	. .	. .	3	7	3	. .	. .	11	31	3	17	3	. .	. .	3	43	3
3,400	7	3	. .	3	. .	. .	. .	. .	3	23	3	7	59	3	11	3	. .	7	13	. .
3,500	53	11	. .	. .	3	7	3	43	. .	3	7	3	. .	. .	17	37	3	. .	3	59
3,600	3	13	3	. .	7	3	19	3	. .	. .	. .	13	3	29	3	7	. .	3	. .	3
3,700	11	3	13	3	. .	53	. .	. .	3	7	3	. .	19	3	7	3	17	. .	. .	29
3,800	. .	. .	7	17	3	. .	3	53	7	3	. .	3	. .	11	13	. .	3	17	3	7
3,900	3	59	3	37	17	3	. .	3	11	29	41	23	3	7	3	. .	13	3	7	3
4,000	. .	3	. .	3	31	17	7	13	3	. .	3	. .	7	3	61	3	. .	. .	17	. .
4,100	7	. .	. .	. .	3	23	3	11	43	3	. .	3	37	47	53	59	3	7	3	13
4,200	3	. .	3	. .	. .	3	17	3	. .	. .	7	11	3	. .	3	. .	7	3	. .	3
4,300	19	3	. .	3	7	. .	11	17	3	. .	3	29	13	3	41	3	. .	23	. .	53
4,400	. .	61	. .	7	3	. .	3	41	17	3	11	3	. .	. .	7	67	3	. .	3	11
4,500	3	29	3	47	. .	3	. .	3	7	17	23	19	3	. .	3	13	. .	3	. .	3
4,600	. .	3	. .	3	59	. .	13	7	3	. .	3	. .	31	3	43	3	. .	13	7	37
4,700	. .	7	67	. .	3	11	3	19	13	3	17	3	7	. .	. .	. .	3	. .	3	. .
4,800	3	23	3	43	. .	3	31	3	. .	11	. .	7	3	19	3	. .	67	3	59	3
4,900	. .	3	. .	3	11	7	. .	. .	3	. .	3	13	17	3	. .	3	7	. .	19	. .

