



Prime Numbers 1 to 1000



Prime Numbers are natural numbers greater than 1 that have exactly two factors: 1 and the number itself.

2	3	5	7	11	13	17	19	23	29
31	37	41	43	47	53	59	61	67	71
73	79	83	89	97	101	103	107	109	113
127	131	137	139	149	151	157	163	167	173
179	181	191	193	197	199	211	223	227	229
233	239	241	251	257	263	269	271	277	281
283	293	307	311	313	317	331	337	347	349
353	359	367	373	379	383	389	397	401	409
419	421	431	433	439	443	449	457	461	463
467	479	487	491	499	503	509	521	523	541
547	557	563	569	571	577	587	593	599	601
607	613	617	619	631	641	643	647	653	659
661	673	677	683	691	701	709	719	727	733
739	743	751	757	761	769	773	787	797	809
811	821	823	827	829	839	853	857	859	863
877	881	883	887	907	911	919	929	937	941
947	953	967	971	977	983	991	997		



There are **168** prime numbers between 1 and 1000.
The largest prime number in this range is **997**.



PRIME NUMBERS EXPLAINED!



★ THE BUILDING BLOCKS OF MATHEMATICS

WHAT IS A PRIME NUMBER?

A prime number is a natural number **greater than 1** that has exactly **two factors**: 1 and the number itself.

Examples:

2 3 5 7 11 13 17

Each of these numbers can only be divided by 1 and itself.

KEY FEATURES

- 1 2 Prime numbers have exactly two factors: 1 and itself.
- 2 2 is the smallest and only even prime number.
- ∞ There are infinitely many prime numbers.
- Every composite number can be written as a product of prime numbers.

QUICK FACTS

- ★ Smallest Prime Number: 2
- 🚩 Largest Prime Number below 1000: 997
- # Total Prime Numbers from 1 to 1000: 168
- ✓ 1 is NOT a prime number.
- ∞ Prime numbers never end!

PRIME NUMBERS FROM 1 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

There are 25 prime numbers between 1 and 100.

PRIME NUMBERS 1 TO 1000 (GROUPED BY RANGE)

1 - 100	25 numbers
101 - 200	21 numbers
201 - 300	16 numbers
301 - 400	16 numbers
401 - 500	17 numbers
501 - 600	14 numbers
601 - 700	16 numbers
701 - 800	14 numbers
801 - 900	15 numbers
901 - 1000	14 numbers

TOTAL PRIME NUMBERS FROM 1 TO 1000 = 168

FIRST 20 PRIME NUMBERS

1.	2	11.	31
2.	3	12.	37
3.	5	13.	41
4.	7	14.	43
5.	11	15.	47
6.	13	16.	53
7.	17	17.	59
8.	19	18.	61
9.	23	19.	67
10.	29	20.	71



Keep practicing and you will remember them all!

QUICK DIVISIBILITY CHECK (TO IDENTIFY PRIME NUMBERS)

2	3	5	7	\sqrt{n}
If a number is even and greater than 2, it is NOT prime.	If the sum of digits is divisible by 3, it is NOT prime.	If a number ends in 0 or 5 (except 5), it is NOT prime.	Check divisibility by 7 if the number is greater than 7.	For bigger numbers, check divisibility up to the square root of the number.
Example: 4, 6, 8	Example: 12 (1+2=3)	Example: 15, 25	Example: 49 (7x7)	Example: For 97, check up to 9.
✗	✗	✗	✗	✓

PRIME vs COMPOSITE

PRIME NUMBER

- Exactly 2 factors (1 and itself)
- Cannot be broken down further
- Examples: 2, 3, 5, 7, 11

2 FACTORS

COMPOSITE NUMBER

- More than 2 factors
- Can be expressed as product of prime numbers
- Examples: 4, 6, 8, 9, 10

MORE THAN 2 FACTORS

VS

WHERE ARE PRIME NUMBERS USED?

Cyber Security Encryption uses very large prime numbers.	Banking & Finance Secure online transactions and passwords.	Computer Programming Used in algorithms, hashing & data structures.	Digital Signatures Helps ensure data integrity and authentication.	Blockchain Technology Prime numbers play a key role in cryptography.

REMEMBER!

- ✓ Prime numbers are the building blocks of all numbers.
- ✓ Practice regularly to identify prime numbers quickly.
- ✓ Use tricks and divisibility rules to save time.
- ✓ There are infinitely many prime numbers!



LEARN TODAY, SOLVE TOMORROW!



★ PRIME NUMBERS 1 TO 1000 ★

COMPLETE CHART

All 168 Prime Numbers between 1 and 1000

1-100	101-200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000
2	101	211	307	401	503	601	701	809	907
3	103	223	311	409	509	607	709	811	911
5	107	227	313	419	521	613	719	821	919
7	109	229	317	421	523	617	727	823	929
11	113	233	331	431	541	619	733	827	937
13	127	239	337	433	547	631	739	829	941
17	131	241	347	439	557	641	743	839	947
19	137	251	349	443	563	643	751	853	953
23	139	257	353	449	569	647	757	857	967
29	149	263	359	457	571	653	761	859	971
31	151	269	367	461	577	659	769	863	977
37	157	271	373	463	587	661	773	877	983
41	163	277	379	467	593	673	787	881	991
43	167	281	383	479	599	677	797	883	997
47	173	283	389	487		683		887	
53	179	293	397	491		691			
59	181			499					
61	191								
67	193								
71	197								
73	199								
79									
83									
89									
97									

QUICK FACTS

- ★ Total Prime Numbers (1 to 1000): 168
- ✓ Smallest Prime Number: 2
- 🚩 Largest Prime Number (less than 1000): 997
- 🕒 Only Even Prime Number: 2
- ∞ Prime Numbers are Infinite in Number

WHAT IS A PRIME NUMBER?

A prime number is a natural number greater than 1 that has exactly two positive factors: 1 and the number itself.

EXAMPLES

2, 3, 5, 7, 11, 13, 17, 19, 23...



TIPS TO IDENTIFY PRIME NUMBERS

- ✓ A number greater than 1 having only two factors is a prime number.
- ✓ Check divisibility up to the square root of the number.
- ✓ Numbers ending in 0, 2, 4, 5, 6, 8 (except 2 and 5) are not prime.
- ✓ All prime numbers greater than 2 are odd numbers.

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