



# COMPOSITE NUMBERS 1 TO 1000



## ★ COMPLETE PRINTABLE CHART ★

A composite number is a natural number greater than 1 that has more than two factors.

1 – 100
4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 62, 63, 64, 65, 66, 68, 69, 70, 72, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100
<b>Total: 74</b>

101 – 200
102, 104, 105, 106, 108, 110, 111, 112, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 128, 129, 130, 132, 133, 134, 135, 136, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 164, 165, 166, 168, 169, 170, 171, 172, 174, 175, 176, 177, 178, 180, 182, 183, 184, 185, 186, 187, 188, 189, 190, 192, 194, 195, 196, 198, 200
<b>Total: 79</b>

201 – 300
201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 224, 225, 226, 228, 230, 231, 232, 234, 235, 236, 237, 238, 240, 242, 243, 244, 245, 246, 247, 248, 249, 250, 252, 253, 254, 255, 256, 258, 259, 260, 261, 262, 264, 265, 266, 267, 268, 270, 272, 273, 274, 275, 276, 278, 279, 280, 282, 284, 285, 286, 287, 288, 289, 290, 291, 292, 294, 295, 296, 297, 298, 299, 300
<b>Total: 84</b>

301 – 400
301, 302, 303, 304, 305, 306, 308, 309, 310, 312, 314, 315, 316, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 332, 333, 334, 335, 336, 338, 339, 340, 341, 342, 343, 344, 345, 346, 348, 350, 351, 352, 354, 355, 356, 357, 358, 360, 361, 362, 363, 364, 365, 366, 368, 369, 370, 371, 372, 374, 375, 376, 377, 378, 380, 381, 382, 384, 385, 386, 387, 388, 390, 391, 392, 393, 394, 395, 396, 398, 399, 400
<b>Total: 84</b>

401 – 500
402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 413, 414, 415, 416, 417, 418, 420, 422, 423, 424, 425, 426, 427, 428, 429, 430, 432, 434, 435, 436, 437, 438, 440, 441, 442, 444, 445, 446, 447, 448, 450, 451, 452, 453, 454, 455, 456, 458, 459, 460, 462, 464, 465, 466, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 480, 481, 482, 483, 484, 485, 486, 488, 489, 490, 492, 493, 494, 495, 496, 497, 498, 500
<b>Total: 83</b>

501 – 600
502, 504, 505, 506, 507, 508, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 522, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 542, 543, 544, 545, 546, 548, 549, 550, 551, 552, 553, 554, 555, 556, 558, 559, 560, 561, 562, 564, 565, 566, 567, 568, 570, 572, 573, 574, 575, 576, 578, 579, 580, 582, 583, 584, 585, 586, 588, 589, 590, 591, 592, 594, 595, 596, 597, 598, 600
<b>Total: 86</b>

601 – 700
602, 603, 604, 605, 606, 608, 609, 610, 611, 612, 614, 615, 616, 618, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 632, 633, 634, 635, 636, 638, 639, 640, 642, 644, 645, 646, 648, 649, 650, 651, 652, 654, 655, 656, 657, 658, 660, 662, 664, 665, 666, 668, 669, 670, 671, 672, 674, 675, 676, 678, 679, 680, 681, 682, 684, 685, 686, 687, 688, 689, 690, 692, 693, 694, 695, 696, 698, 699, 700
<b>Total: 84</b>

701 – 800
702, 703, 704, 705, 706, 707, 708, 710, 711, 712, 713, 714, 715, 716, 717, 718, 720, 721, 722, 723, 724, 725, 726, 728, 729, 730, 731, 732, 734, 735, 736, 737, 738, 740, 741, 742, 744, 745, 746, 747, 748, 749, 750, 752, 753, 754, 755, 756, 758, 759, 760, 762, 763, 764, 765, 766, 767, 768, 770, 771, 772, 774, 775, 776, 777, 778, 780, 781, 782, 783, 784, 785, 786, 788, 789, 790, 792, 793, 794, 795, 796, 798, 799, 800
<b>Total: 86</b>

801 – 900
802, 803, 804, 805, 806, 807, 808, 810, 812, 813, 814, 815, 816, 817, 818, 819, 820, 822, 824, 825, 826, 828, 830, 831, 832, 833, 834, 835, 836, 837, 838, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 854, 855, 856, 858, 859, 860, 861, 862, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 878, 879, 880, 882, 884, 885, 886, 888, 889, 890, 891, 892, 894, 895, 896, 897, 898, 899, 900
<b>Total: 85</b>

901 – 1000
902, 903, 904, 905, 906, 908, 909, 910, 912, 913, 914, 915, 916, 917, 918, 920, 921, 922, 923, 924, 925, 926, 927, 928, 930, 931, 932, 933, 934, 935, 936, 938, 939, 940, 942, 943, 944, 945, 946, 948, 949, 950, 951, 952, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 968, 969, 970, 972, 973, 974, 975, 976, 978, 979, 980, 981, 982, 984, 985, 986, 988, 989, 990, 992, 993, 994, 995, 996, 998, 999, 1000
<b>Total: 86</b>

### SUMMARY



Total Natural Numbers (1-1000)

**1000**



Prime Numbers (1-1000)

**168**



Neither Prime Nor Composite

**1 (i.e. 1)**



Composite Numbers (1-1000)

**831**

### KEY POINTS

- ✓ 1 is neither prime nor composite.
- ✓ 2 is the only even prime number.
- ✓ Composite numbers have more than two factors.
- ✓ There are infinite composite numbers.

### EXAMPLES

$$4 = 2 \times 2 \quad \dots \quad 12 = 2 \times 2 \times 3$$

$$6 = 2 \times 3 \quad \dots \quad 18 = 2 \times 3 \times 3$$



# COMPOSITE NUMBERS

THE NUMBERS WITH MORE THAN TWO FACTORS



A complete guide to understand, identify and use composite numbers.



## DEFINITION

A composite number is a natural number greater than 1 that has more than two positive factors.

In simple words, if a number can be divided exactly by any number other than 1 and itself, it is a composite number.

## EXAMPLES

4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 24, 25, 27, 30, ...  
(And infinitely more!)



## PROPERTIES

- Greater than 1.
- Have more than two factors.
- Can be even or odd.
- Can be written as a product of two or more smaller natural numbers.
- Every composite number has at least one prime factor.
- The smallest composite number is 4.
- There are infinite composite numbers.

## COMPOSITE NUMBERS

Greater than 1

More than two factors



## SMALLEST COMPOSITE NUMBER

4

(1 and 2 are not composite numbers.)

Factors of 4: 1, 2, 4

## HOW TO IDENTIFY A COMPOSITE NUMBER?



### 1. COUNT THE FACTORS

If a number has more than two factors, it is composite.

Example: 12

Factors: 1, 2, 3, 4, 6, 12  
(More than two factors)

So, 12 is composite.



### 2. CHECK DIVISIBILITY

If it is divisible by any number other than 1 and itself, it is composite.

Example: 15

$15 \div 3 = 5$   
(Divisible by 3)

So, 15 is composite.



### 3. PRIME FACTORIZATION

If a number can be written as a product of prime numbers, it is composite.

Example: 36

$= 2 \times 2 \times 3 \times 3$   
 $= 2^2 \times 3^2$

So, 36 is composite.



### 4. QUICK TRICKS

- Even numbers greater than 2 are composite.
- Numbers ending in 5 (except 5) are composite.
- If sum of digits is divisible by 3, the number is composite (except 3).

## COMPOSITE NUMBERS FROM 1 TO 100

4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 62, 63, 64, 65, 66, 68, 69, 70, 72, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100

Total  
74

Composite Numbers  
(1 to 100)

## PRIME vs COMPOSITE NUMBERS

Feature	Prime Numbers	Composite Numbers
Definition	Have exactly two factors	Have more than two factors
Divisible by	1 and itself	1, itself and other numbers
Smallest Number	2	4
Example	2, 3, 5, 7, 11	4, 6, 8, 9, 10, 12
Prime Factorization	Cannot be broken further	Can be written as product of primes



## IMPORTANT FACTS

- 1 is neither prime nor composite.
- 2 is the only even prime number.
- Every composite number can be written as a product of prime numbers.
- There are infinite composite numbers.
- Total composite numbers between 1 and 1000 = **831**.



## APPLICATIONS

- $2 \times 3$  Finding factors and multiples
- LCM HCF Calculating HCF and LCM
- $a-b$  Algebraic expressions
- $\pi$  Number theory and proofs
- Useful in competitive exams



## EXAMPLES

- $18 = 2 \times 3 \times 3$  (Composite)
- $25 = 5 \times 5$  (Composite)
- $21 = 3 \times 7$  (Composite)
- 97 is **NOT** composite (It is prime)
- 1 is neither prime nor composite



# ★ COMPOSITE NUMBERS 1 TO 1000 ★

## COMPLETE CHART

A composite number is a natural number greater than 1 that has more than two factors.

1 – 100	101 – 200	201 – 300	301 – 400	401 – 500
4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 62, 63, 64, 65, 66, 68, 69, 70, 72, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100	102, 104, 105, 106, 108, 110, 111, 112, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 128, 129, 130, 132, 133, 134, 135, 136, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 164, 165, 166, 168, 169, 170, 171, 172, 174, 175, 176, 177, 178, 180, 182, 183, 184, 185, 186, 187, 188, 189, 190, 192, 194, 195, 196, 198, 200	201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 224, 225, 226, 228, 230, 231, 232, 234, 235, 236, 237, 238, 240, 242, 243, 244, 245, 246, 247, 248, 249, 250, 252, 253, 254, 255, 256, 258, 259, 260, 261, 262, 264, 265, 266, 267, 268, 270, 272, 273, 274, 275, 276, 278, 279, 280, 282, 284, 285, 286, 287, 288, 289, 290, 291, 292, 294, 295, 296, 297, 298, 299, 300	301, 302, 303, 304, 305, 306, 308, 309, 310, 312, 314, 215, 316, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 332, 333, 334, 335, 336, 338, 339, 340, 341, 342, 343, 344, 345, 346, 348, 350, 351, 352, 354, 355, 356, 357, 358, 360, 361, 362, 263, 364, 365, 366, 368, 369, 370, 371, 372, 374, 375, 376, 377, 378, 380, 381, 382, 384, 385, 386, 387, 388, 390, 391, 392, 393, 394, 395, 396, 398, 399, 400	402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 413, 414, 415, 416, 417, 418, 420, 422, 423, 424, 425, 426, 427, 428, 429, 430, 432, 434, 435, 436, 437, 438, 440, 441, 442, 444, 445, 446, 447, 448, 450, 451, 452, 453, 454, 455, 456, 458, 459, 460, 462, 464, 465, 466, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 480, 481, 482, 483, 484, 485, 486, 488, 489, 490, 492, 493, 494, 495, 496, 497, 498, 500
<b>Total: 74</b>	<b>Total: 79</b>	<b>Total: 84</b>	<b>Total: 84</b>	<b>Total: 83</b>
501 – 600	601 – 700	701 – 800	801 – 900	901 – 1000
502, 504, 505, 506, 507, 508, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 522, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 542, 543, 544, 545, 546, 548, 549, 550, 551, 552, 553, 554, 555, 556, 558, 559, 560, 561, 562, 564, 565, 566, 567, 568, 570, 572, 573, 574, 575, 576, 578, 579, 580, 581, 582, 583, 584, 585, 586, 588, 589, 590, 591, 592, 594, 595, 596, 597, 598, 600	602, 603, 604, 605, 606, 608, 609, 610, 611, 612, 614, 615, 616, 618, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 632, 633, 634, 635, 636, 638, 639, 640, 642, 644, 645, 646, 648, 649, 650, 651, 652, 654, 655, 656, 657, 658, 660, 662, 664, 665, 666, 668, 669, 670, 671, 672, 674, 675, 676, 678, 679, 680, 681, 682, 684, 685, 686, 687, 688, 689, 690, 692, 693, 694, 695, 696, 698, 699, 700	702, 703, 704, 705, 706, 707, 708, 710, 711, 712, 713, 714, 715, 716, 717, 718, 720, 721, 722, 723, 724, 725, 726, 728, 729, 730, 731, 732, 734, 735, 736, 737, 738, 740, 741, 742, 744, 745, 746, 747, 748, 749, 750, 752, 753, 754, 755, 756, 758, 759, 760, 762, 763, 764, 765, 766, 767, 768, 770, 771, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 788, 789, 790, 791, 792, 793, 794, 795, 796, 798, 799, 800	802, 803, 804, 805, 806, 807, 808, 810, 812, 813, 814, 815, 816, 817, 818, 819, 820, 822, 824, 825, 826, 828, 830, 831, 832, 833, 834, 835, 836, 837, 838, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 854, 855, 856, 858, 860, 861, 862, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 878, 879, 880, 882, 884, 885, 886, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900	902, 903, 904, 905, 906, 908, 909, 910, 912, 913, 914, 915, 916, 917, 918, 920, 921, 922, 923, 924, 925, 926, 927, 928, 930, 931, 932, 933, 934, 935, 936, 938, 939, 940, 942, 943, 944, 945, 946, 948, 949, 950, 951, 952, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 968, 969, 970, 972, 973, 974, 975, 976, 978, 979, 980, 981, 982, 984, 985, 986, 987, 988, 989, 990, 992, 993, 994, 995, 996, 998, 999, 1000
<b>Total: 86</b>	<b>Total: 84</b>	<b>Total: 86</b>	<b>Total: 85</b>	<b>Total: 86</b>



### SUMMARY

Total Natural Numbers (1-1000)

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Composite Numbers (1-1000)

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### IMPORTANT NOTES

- ✓ 1 is neither prime nor composite.
- ✓ 2 is the only even prime number.
- ✓ Every composite number can be written as a product of prime numbers.
- ✓ There are infinite composite numbers.



### QUICK TIPS

- ✓ Check divisibility by 2, 3, 5, 7, 11...
- ✓ Every even number greater than 2 is composite.
- ✓ Numbers ending in 0 or 5 (except 5) are composite.



### EXAMPLES

- ✓  $18 = 2 \times 3 \times 3$  (Composite)
- ✓  $25 = 5 \times 5$  (Composite)
- ✓  $97 = \text{Prime}$
- ✓  $1 = \text{Neither Prime nor Composite}$

