

# NOMBRES - Curiosités, théorie et usages

## NOMBRES TOUCHABLES & INTOUCHABLES

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### Table des nombres touchables et intouchables et des nombres sigma-touchables et sigma-intouchables

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- 

#### Nombres touchables

ou nombres **sommes de diviseurs stricts** d'au moins un nombre.

**Exemple:** le nombre 10 a pour diviseurs stricts [1, 2, 5] dont la somme est 8. Le nombre 8 est donc touchable par les diviseurs du nombre 10. Il est aussi touchable par les diviseurs du nombre 49 (1 + 7). Et c'est tout. Le nombre 10 est 2-touchable.

#### Liste jusqu'à 100 avec le plus petit nombre donnant cette somme

[s', n] => [3, 4], [4, 9], [6, 6], [7, 8], [8, 10], [9, 15], [10, 14], [11, 21], [12, 121], [13, 27], [14, 22], [15, 16], [16, 12], [17, 39], [18, 289], [19, 65], [20, 34], [21, 18], [22, 20], [23, 57], [24, 529], [25, 95], [26, 46], [27, 69], [28, 28], [29, 115], [30, 841], [31, 32], [32, 58], [33, 45], [34, 62], [35, 93], [36, 24], [37, 155], [38, 1369], [39, 217], [40, 44], [41, 63], [42, 30], [43, 50], [44, 82], [45, 123], [46, 52], [47, 129], [48, 2209], [49, 75], [50, 40], [51, 141], [53, 235], [54, 42], [55, 36], [56, 106], [57, 99], [58, 68], [59, 265], [60, 3481], [61, 371], [62, 118], [63, 64], [64, 56], [65, 117], [66, 54], [67, 305], [68, 4489], [69, 427], [70, 134], [71, 201], [72, 5041], [73, 98], [74, 70], [75, 213], [76, 48], [77, 219], [78, 66], [79, 365], [80, 6241], [81, 147], [82, 158], [83, 237], [84, 6889], [85, 395], [86, 166], [87, 105], [89, 171], [90, 78], [91, 581], [92, 88], [93, 267], [94, 116], [95, 445], [97, 245], [98, 9409], [99, 1501], [100, 124], [101, 291], [102, 10201], [103, 485], [104, 202], [105,

135], [106, 80], [107, 309], [108, 60], [109, 325], [110, 214], [111, 321], [112, 218], [113, 327], [114, 102], [115, 545], [116, 226], [117, 100], [118, 148], [119, 565], [121, 243], [122, 130], [123, 72], [125, 1243], [126, 114], [127, 128], [128, 16129], [129, 261], [130, 164], [131, 189], [132, 17161], [133, 425], [134, 136], [135, 393], [136, 112], [137, 279], [138, 18769], [139, 917], [140, 84], [141, 195], [142, 278], [143, 417], [144, 90], [145, 475], [147, 973], [148, 152], [149, 1507], [150, 138], [151, 1529], [152, 298], [153, 231], [154, 170], [155, 453], [156, 96], [157, 242], [158, 24649], [159, 1057], [160, 314], [161, 333], [163, 785], [164, 26569], [165, 1099], [166, 212], [167, 489], [168, 27889], [169, 363], [170, 190], [171, 501], [172, 108], [173, 835], [174, 29929], [175, 273], [176, 184], [177, 255], [178, 225], [179, 865], [180, 32041], [181, 1211], [182, 358], [183, 297], [184, 236], [185, 387], [186, 126], [187, 905], [189, 1267], [190, 244], [191, 385], [192, 36481], [193, 605], [194, 238], [195, 285], [196, 140], [197, 579], [198, 186], [199, 965], [200, 394], [201, 162], [202, 230], [203, 196], [204, 132], [205, 725], [207, 1393], [208, 268], [209, 351], [211, 338], [212, 44521], [213, 2587], [214, 266], [215, 633], [217, 455], [218, 160], [219, 357], [220, 284], [221, 4531], [222, 150], [223, 2321], [224, 49729], [225, 477], [226, 208], [227, 669], [228, 51529], [229, 1115], [230, 454], [231, 345], [232, 248], [233, 687], [234, 222], [235, 1145], [236, 156], [237, 699], [239, 1165], [240, 120], [241, 399], [242, 478], [243, 429], [244, 316], [245, 723], [247, 1205], [249, 375], [250, 290], [251, 2629], [252, 63001], [253, 845], [254, 322], [255, 256], [256, 332], [257, 549], [258, 246], [259, 144], [260, 514], [261, 459], [263, 1285], [264, 69169], [265, 200], [266, 310], [267, 789], [269, 595], [270, 198], [271, 1841], [272, 538], [273, 807], [274, 296], [275, 813], [277, 1025], [278, 76729], [279, 1897], [280, 224], [281, 603], [282, 78961], [283, 1385], [284, 220], [285, 435], [286, 272], [287, 513], [289, 1075], [291, 1981], [293, 715], [294, 282], [295, 665], [296, 586], [297, 639], [298, 388], [299, 1465], [300, 204], [301, 2051], [302, 328], [303, 465], [305, 657], [307, 3809], [308, 94249], [309, 315], [310, 404], [311, 921], [312, 168], [313, 1175], [314, 370], [315, 933], [316, 192], [317, 939], [318, 100489], [319, 1565], [320, 634], [321, 405], [323, 1585], [325, 2219], [327, 4069], [328, 260], [329, 711], [330, 318], [331, 4121], [332, 228], [333, 627], [334, 434], [335, 993], [337, 1655], [338, 113569], [339, 621], [340, 674], [341, 1011], [343, 578], [344, 376], [345, 663], [346, 410], [347, 805], [348, 120409], [349, 1325], [350, 694], [351, 609], [352, 698], [353, 1047], [354, 124609], [355, 1745], [356, 706], [357, 555], [358, 506], [359, 1765], [360, 128881], [361, 867], [362, 430], [363, 1077], [364, 308], [365, 1795], [366, 180], [367, 2513], [368, 134689], [369, 801], [370, 734], [371, 1101], [373, 651], [374, 139129], [375, 2569], [376, 368], [377, 1119], [378, 366], [379, 741], [380, 143641], [381, 2611], [382, 758], [383, 1137], [384, 216], [385, 1475], [386, 424], [387, 1149], [388, 508], [389, 1915], [390, 294], [391, 2681], [392, 778], [393, 615], [394, 350], [395, 1045], [396, 276], [397, 1445], [398, 157609], [399, 7201], [400, 524], [401, 567], [402, 160801], [403, 1985], [404, 352], [405, 1203], [407, 1105], [409, 2783], [410, 598], [411, 645], [412, 818], [413, 1227], [414, 402], [415, 2045], [416, 340], [417, 783], [418, 548], [419, 1309], [420, 364], [421, 722], [422, 838], [423, 1257], [424, 556], [425, 927], [427, 2105], [428, 472], [429, 2947], [431, 4609], [432, 185761], [433, 1675], [434, 574], [435, 1293], [436, 866], [437, 1299], [438, 342], [439, 777], [440, 280],

[441, 495], [442, 320], [443, 837], [444, 196249], [445, 1235], [446, 886],  
[447, 484], [449, 981], [450, 270], [451, 1085], [452, 898], [453, 1347],  
[454, 596], [455, 2245], [456, 264], [457, 1463], [458, 208849], [459, 8341],  
[460, 380], [461, 1371], [462, 212521], [463, 392], [464, 922], [465, 1017],  
[466, 416], [467, 525], [468, 218089], [469, 1547], [470, 682], [471, 969],  
[473, 2335], [475, 3269], [476, 252], [477, 6019], [478, 628], [479, 5137],  
[480, 229441], [481, 1805], [482, 958], [483, 861], [484, 536], [485, 2395],  
[486, 474], [487, 3353], [488, 237169], [489, 14167], [490, 590], [491,  
1461], [492, 348], [493, 2435], [494, 658], [495, 1473], [496, 496], [497,  
1375], [499, 3437], [500, 249001]

## Nombres intouchables

ou nombres jamais **somme de diviseurs stricts**.

**Exemple:** le nombre 52 n'est la somme des diviseurs stricts d'aucun nombre.  
Par contre, 141 a pour diviseurs stricts [1, 3, 47] dont la somme est 51.

## Liste jusqu'à 5300

2, 5, 52, 88, 96, 120, 124, 146, 162, 188, 206, 210, 216, 238, 246, 248, 262, 268,  
276, 288, 290, 292, 304, 306, 322, 324, 326, 336, 342, 372, 406, 408, 426, 430,  
448, 472, 474, 498, 516, 518, 520, 530, 540, 552, 556, 562, 576, 584, 612, 624,  
626, 628, 658, 668, 670, 708, 714, 718, 726, 732, 738, 748, 750, 756, 766, 768,  
782, 784, 792, 802, 804, 818, 836, 848, 852, 872, 892, 894, 896, 898, 902, 926,  
934, 936, 964, 966, 976, 982, 996, 1002, 1028, 1044, 1046, 1060, 1068, 1074,  
1078, 1080, 1102, 1116, 1128, 1134, 1146, 1148, 1150, 1160, 1162, 1168, 1180,  
1186, 1192, 1200, 1212, 1222, 1236, 1246, 1248, 1254, 1256, 1258, 1266, 1272,  
1288, 1296, 1312, 1314, 1316, 1318, 1326, 1332, 1342, 1346, 1348, 1360, 1380,  
1388, 1398, 1404, 1406, 1418, 1420, 1422, 1438, 1476, 1506, 1508, 1510, 1522,  
1528, 1538, 1542, 1566, 1578, 1588, 1596, 1632, 1642, 1650, 1680, 1682, 1692,  
1716, 1718, 1728, 1732, 1746, 1758, 1766, 1774, 1776, 1806, 1816, 1820, 1822,  
1830, 1838, 1840, 1842, 1844, 1852, 1860, 1866, 1884, 1888, 1894, 1896, 1920,  
1922, 1944, 1956, 1958, 1960, 1962, 1972, 1986, 1992, 2008, 2010, 2022, 2024,  
2036, 2048, 2050, 2052, 2058, 2062, 2068, 2078, 2096, 2098, 2108, 2118, 2120,  
2128, 2136, 2148, 2152, 2158, 2168, 2174, 2178, 2190, 2196, 2198, 2212, 2218,  
2226, 2228, 2232, 2248, 2258, 2262, 2302, 2304, 2306, 2316, 2322, 2324, 2330,  
2338, 2356, 2364, 2366, 2376, 2388, 2404, 2408, 2410, 2416, 2422, 2430, 2432,  
2436, 2446, 2452, 2454, 2464, 2482, 2484, 2490, 2496, 2498, 2500, 2502, 2514,  
2518, 2530, 2564, 2568, 2572, 2576, 2586, 2588, 2590, 2600, 2602, 2606, 2608,  
2614, 2628, 2640, 2642, 2704, 2718, 2724, 2726, 2736, 2748, 2758, 2760, 2762,  
2766, 2774, 2784, 2788, 2808, 2824, 2828, 2850, 2856, 2874, 2876, 2894, 2902,  
2914, 2922, 2932, 2944, 2946, 2950, 2952, 2968, 2978, 2982, 2984, 2992, 2994,  
2996, 3008, 3018, 3028, 3036, 3060, 3072, 3076, 3078, 3102, 3104, 3114, 3126,  
3132, 3136, 3142, 3144, 3152, 3156, 3162, 3174, 3186, 3198, 3202, 3208, 3228,  
3234, 3236, 3238, 3246, 3266, 3270, 3276, 3278, 3292, 3296, 3306, 3312, 3318,  
3328, 3340, 3356, 3366, 3378, 3384, 3388, 3396, 3400, 3402, 3406, 3412, 3420,  
3422, 3428, 3430, 3432, 3448, 3454, 3476, 3484, 3486, 3488, 3504, 3506, 3510,  
3524, 3538, 3556, 3564, 3576, 3580, 3588, 3590, 3592, 3600, 3604, 3630, 3636,  
3642, 3648, 3650, 3652, 3656, 3666, 3670, 3682, 3684, 3708, 3738, 3744, 3746,  
3748, 3752, 3758, 3760, 3774, 3786, 3788, 3792, 3808, 3812, 3816, 3818, 3820,

3828, 3832, 3842, 3860, 3862, 3868, 3872, 3876, 3888, 3900, 3902, 3904, 3936, 3940, 3942, 3954, 3958, 3960, 3972, 3974, 3982, 3986, 4018, 4026, 4032, 4036, 4046, 4048, 4056, 4062, 4068, 4070, 4072, 4078, 4086, 4088, 4098, 4104, 4116, 4120, 4148, 4168, 4170, 4172, 4184, 4188, 4190, 4198, 4206, 4216, 4224, 4238, 4248, 4258, 4268, 4280, 4296, 4302, 4304, 4308, 4312, 4316, 4318, 4320, 4322, 4336, 4344, 4356, 4368, 4370, 4380, 4382, 4386, 4388, 4396, 4402, 4406, 4416, 4430, 4462, 4472, 4476, 4480, 4488, 4490, 4492, 4498, 4500, 4506, 4512, 4530, 4534, 4574, 4580, 4588, 4612, 4614, 4618, 4630, 4648, 4662, 4668, 4672, 4678, 4686, 4688, 4690, 4700, 4710, 4712, 4718, 4738, 4740, 4742, 4748, 4750, 4758, 4764, 4770, 4772, 4782, 4808, 4830, 4838, 4840, 4842, 4850, 4854, 4856, 4860, 4868, 4882, 4884, 4886, 4896, 4898, 4908, 4914, 4916, 4926, 4928, 4942, 4956, 4962, 4964, 4980, 4982, 4984, 4998, 5016, 5030, 5032, 5034, 5044, 5070, 5072, 5092, 5094, 5096, 5106, 5126, 5132, 5136, 5138, 5142, 5144, 5152, 5158, 5160, 5178, 5184, 5202, 5204, 5208, 5214, 5218, 5222, 5224, 5226

## Nombres sigma-touchables

ou nombres **sommes de tous les diviseurs** d'au moins un nombre.

**Exemple:** le nombre 12 a pour diviseurs stricts [1, 2, 3, 4, 6, 12] dont la somme est 28. Le nombre 28 est donc touchable par les diviseurs du nombre 12. Et c'est tout. Le nombre 12 est 1-sigma-touchable.

## Liste jusqu'à 500 avec le plus petit nombre donnant cette somme

[1, 1], [3, 2], [4, 3], [6, 5], [7, 4], [8, 7], [12, 6], [12, 11], [13, 9], [14, 13], [15, 8], [18, 10], [18, 17], [20, 19], [24, 14], [24, 15], [24, 23], [28, 12], [30, 29], [31, 16], [31, 25], [32, 21], [32, 31], [36, 22], [38, 37], [39, 18], [40, 27], [42, 20], [42, 26], [42, 41], [44, 43], [48, 33], [48, 35], [48, 47], [54, 34], [54, 53], [56, 28], [56, 39], [57, 49], [60, 24], [60, 38], [60, 59], [62, 61], [63, 32], [68, 67], [72, 30], [72, 46], [72, 51], [72, 55], [72, 71], [74, 73], [78, 45], [80, 57], [80, 79], [84, 44], [84, 65], [84, 83], [90, 40], [90, 58], [90, 89], [91, 36], [93, 50], [96, 42], [96, 62], [96, 69], [96, 77], [98, 52], [98, 97], [102, 101], [104, 63], [104, 103], [108, 85], [108, 107], [110, 109], [112, 91], [114, 74], [114, 113], [120, 54], [120, 56], [120, 87], [120, 95], [121, 81], [124, 48], [124, 75], [126, 68], [126, 82], [127, 64], [128, 93], [128, 127], [132, 86], [132, 131], [133, 121], [138, 137], [140, 76], [140, 139], [144, 66], [144, 70], [144, 94], [144, 115], [144, 119], [150, 149], [152, 111], [152, 151], [156, 99], [156, 125], [158, 157], [160, 133], [162, 106], [164, 163], [168, 60], [168, 78], [168, 92], [168, 123], [168, 143], [168, 167], [171, 98], [174, 173], [176, 129], [180, 88], [180, 118], [180, 145], [180, 179], [182, 117], [182, 181], [183, 169], [186, 80], [186, 122], [192, 105], [192, 141], [192, 155], [192, 161], [192, 191], [194, 193], [195, 72], [198, 197], [200, 199], [204, 134], [210, 104], [210, 116], [212, 211], [216, 102], [216, 110], [216, 142], [216, 159], [216, 187], [217, 100], [222, 146], [224, 84], [224, 124], [224, 223], [228, 147], [228, 185], [228, 227], [230, 229], [234, 90], [234, 153], [234, 233], [240, 114], [240, 135], [240, 158], [240, 177], [240, 203], [240, 209], [240, 239], [242, 241], [248, 112], [248, 175], [248, 183], [252, 96], [252, 130], [252, 166], [252, 205], [252, 221], [252, 251], [255, 128], [256, 217], [258, 257], [260, 171], [264, 215], [264, 263], [266, 148], [270, 136], [270, 178], [270, 269], [272, 201], [272, 271], [278, 277], [280, 108], [280, 247], [282, 281], [284, 283], [288, 138], [288, 154], [288, 165], [288, 213], [288, 235], [288, 253], [294, 164], [294, 194], [294, 293], [296, 219], [300,

152], [304, 259], [306, 202], [307, 289], [308, 172], [308, 307], [312, 126], [312, 206], [312, 207], [312, 311], [314, 313], [318, 317], [320, 189], [320, 237], [324, 170], [324, 214], [324, 265], [330, 218], [332, 331], [336, 132], [336, 140], [336, 182], [336, 188], [336, 195], [336, 249], [336, 287], [336, 299], [338, 337], [342, 226], [342, 245], [348, 347], [350, 349], [352, 301], [354, 353], [360, 120], [360, 174], [360, 184], [360, 190], [360, 267], [360, 295], [360, 319], [360, 323], [360, 359], [363, 162], [364, 243], [368, 367], [372, 150], [372, 176], [372, 275], [372, 305], [374, 373], [378, 160], [378, 212], [380, 379], [381, 361], [384, 186], [384, 231], [384, 254], [384, 329], [384, 341], [384, 383], [390, 261], [390, 389], [392, 156], [392, 291], [396, 262], [398, 397], [399, 196], [399, 242], [400, 343], [402, 401], [403, 144], [403, 225], [408, 303], [408, 335], [410, 409], [414, 274], [416, 279], [416, 309], [420, 236], [420, 278], [420, 377], [420, 419], [422, 421], [432, 230], [432, 238], [432, 255], [432, 321], [432, 355], [432, 371], [432, 391], [432, 431], [434, 208], [434, 244], [434, 325], [434, 433], [440, 327], [440, 439], [444, 365], [444, 443], [448, 273], [448, 403], [450, 232], [450, 298], [450, 449], [456, 222], [456, 302], [456, 339], [456, 407], [458, 457], [462, 461], [464, 463], [465, 200], [468, 198], [468, 250], [468, 467], [474, 314], [476, 268], [480, 168], [480, 248], [480, 266], [480, 285], [480, 297], [480, 395], [480, 413], [480, 437], [480, 479], [488, 487], [492, 326], [492, 491], [494, 333], [496, 427], [500, 499]

## Nombres sigma-intouchables

ou nombres jamais **somme de tous les diviseurs.**

**Exemple:** le nombre 16 n'est la somme des diviseurs d'aucun nombre.

### Liste jusqu'à 500

2, 5, 9, 10, 11, 16, 17, 19, 21, 22, 23, 25, 26, 27, 29, 33, 34, 35, 37, 41, 43, 45, 46, 47, 49, 50, 51, 52, 53, 55, 58, 59, 61, 64, 65, 66, 67, 69, 70, 71, 73, 75, 76, 77, 79, 81, 82, 83, 85, 86, 87, 88, 89, 92, 94, 95, 97, 99, 100, 101, 103, 105, 106, 107, 109, 111, 113, 115, 116, 117, 118, 119, 122, 123, 125, 129, 130, 131, 134, 135, 136, 137, 139, 141, 142, 143, 145, 146, 147, 148, 149, 151, 153, 154, 155, 157, 159, 161, 163, 165, 166, 167, 169, 170, 172, 173, 175, 177, 178, 179, 181, 184, 185, 187, 188, 189, 190, 191, 193, 196, 197, 199, 201, 202, 203, 205, 206, 207, 208, 209, 211, 213, 214, 215, 218, 219, 220, 221, 223, 225, 226, 227, 229, 231, 232, 233, 235, 236, 237, 238, 239, 241, 243, 244, 245, 246, 247, 249, 250, 251, 253, 254, 257, 259, 261, 262, 263, 265, 267, 268, 269, 271, 273, 274, 275, 276, 277, 279, 281, 283, 285, 286, 287, 289, 290, 291, 292, 293, 295, 297, 298, 299, 301, 302, 303, 305, 309, 310, 311, 313, 315, 316, 317, 319, 321, 322, 323, 325, 326, 327, 328, 329, 331, 333, 334, 335, 337, 339, 340, 341, 343, 344, 345, 346, 347, 349, 351, 353, 355, 356, 357, 358, 359, 361, 362, 365, 366, 367, 369, 370, 371, 373, 375, 376, 377, 379, 382, 383, 385, 386, 387, 388, 389, 391, 393, 394, 395, 397, 401, 404, 405, 406, 407, 409, 411, 412, 413, 415, 417, 418, 419, 421, 423, 424, 425, 426, 427, 428, 429, 430, 431, 433, 435, 436, 437, 438, 439, 441, 442, 443, 445, 446, 447, 449, 451, 452, 453, 454, 455, 457, 459, 460, 461, 463, 466, 467, 469, 470, 471, 472, 473, 475, 477, 478, 479, 481, 482, 483, 484, 485, 486, 487, 489, 490, 491, 493, 495, 497, 498, 499



## Nombres hautement touchables

Quels sont les nombres  $n$  qui touchent chaque somme aliquote record ?

Nombre touché, quantité de fois, par tous les nombres de la liste  
Chaque nombre compte plus de touches que le nombre précédent.

**2**, 0, [ ]

**3**, 1, [4]

**6**, 2, [6, 25] [Nombre parfait](#)

**21**, 3, [18, 51, 91]

**31**, 5, [32, 125, 161, 209, 221]

**49**, 6, [75, 215, 287, 407, 527, 551], 6

**73**, 8, [98, 175, 335, 671, 767, 1007, 1247, 1271]

**91**, 9, [581, 869, 1241, 1349, 1541, 1769, 1829, 1961, 2021]

**115**, 10, [545, 749, 1133, 1313, 1649, 2573, 2993, 3053, 3149, 3233]

**121**, 13, [243, 791, 1199, 1391, 1751, 1919, 2231, 2759, 3071, 3239, 3431, 3551, 3599]

**169**, 15, [363, 575, 815, 1727, 2567, 2831, 4031, 4247, 4847, 5207, 6431, 6527, 6767, 6887, 7031]

**211**, 20, [338, 2189, 2561, 3281, 3629, 5249, 5549, 6401, 7181, 7661, 8321, 8909, 9089, 9869, 10001, 10349, 10541, 10961, 11009, 11021]

**301**, 21, [2051, 4811, 5339, 6371, 7859, 8339, 9731, 11051, 14219, 14579, 15611, 16259, 16571, 18779, 20099, 20291, 20651, 20819, 21971, 22331, 22499]

**331**, 24, [4121, 5321, 5909, 7061, 10841, 13301, 14681, 15989, 16409, 17621, 18761, 19829, 21449, 22601, 23129, 23381, 23861, 26069, 26441, 26549, 26969, 27029, 27161, 27221]

**361**, 25, [867, 935, 2299, 2471, 3839, 4511, 7751, 9599, 13631, 14711, 16271, 19631, 22199, 22991, 24119, 25511, 26471, 27359, 29591, 29999, 30551, 31439, 32111, 32231, 32399]

**391**, 27, [2681, 4169, 6341, 8441, 11129, 13061, 14309, 14921, 17861, 19529, 23141, 24569, 25481, 28421, 30281, 30629, 31301, 33401, 34889, 35909, 36089, 36581, 37001, 37241, 37769, 38009, 38021]

**421**, 32, [722, 2873, 4499, 7619, 9131, 12059, 14171, 15539, 17531, 19451, 21899, 23651, 24779, 25331, 27971, 29459, 32651, 33491, 33899, 34691, 37211, 38771, 39059, 40379, 40619, 41291, 41891, 43139, 43259, 43739, 43811, 43931]

**511**, 34, [512, 1729, 3521, 5489, 9329, 11201, 14849, 20081, 21761, 24221, 27389, 29681, 31169, 34049, 37469, 41309, 43709, 44861, 48641, 49649, 51101, 54209, 55421, 56561, 58301, 59249, 61181, 61661, 61889, 64241, 64349, 64541, 64769, 64829]

**631**, 41, [6809, 8021, 10421, 13961, 17429, 18569, 21941, 25241, 30581, 33689, 34709, 37721, 40661, 45401, 48149, 55961, 56789, 63881, 65369, 68249, 72329, 76121, 77321, 79061, 81269, 83849, 85301, 85769, 88409, 91829, 92501, 93749, 95129, 95861, 96521, 97289, 97781, 98069, 98201, 98741, 99221]

**721**, 44, [2639, 3703, 4067, 6137, 6647, 7799, 13319, 20039, 25271, 29111, 31631, 38999, 40199, 43751, 47231, 50639, 56159, 62519, 63551, 65591, 68591, 75311, 85079, 85919, 88391, 90791, 94631, 96839, 103031, 103679, 107399, 112439, 113471, 115439, 118991, 120191, 121679, 122711, 123359, 127199, 128759, 129071, 129431, 129551]

**781**, 46, [3059, 3125, 5411, 8459, 14459, 17411, 21779, 27491, 30299, 34451, 38531, 43859, 50339, 55379, 61499, 66251, 69731, 72011, 82931, 88091, 89099, 94019, 100571, 102371, 105011, 107579, 108419, 113291, 120059, 124211, 127451, 129299, 134411, 137939, 139331, 140219, 142691, 146171, 146771, 148619, 149291, 150251, 150419, 151139, 151979, 152051]

**841**, 56, [2135, 4199, 7139, 7943, 8303, 9119, 10751, 13991, 15599, 23519, 25079, 34271, 41711, 51791, 54599, 60119, 62831, 66839, 72071, 74639, 78431, 82151, 92879, 97439, 102959, 107231, 110351, 112391, 118319, 119279, 124871, 126671, 127559, 137591, 139151, 141431, 143639, 144359, 151751, 153599, 154199, 155951, 157631, 160271, 165791, 168479, 169511, 171359, 171911, 174191, 174719, 175031, 175871, 176039, 176279, 176399]

**Rappel: ces 56 derniers nombres ont tous 841 pour somme de leurs diviseurs stricts.**

*Chacun testé jusqu'à 1000 fois sa valeur (ex: le dernier jusqu'à 841 000)*

## **Nombres hautement SIGMA-touchables**

**Quels sont les nombres n qui touchent chaque somme des diviseurs record ?**

1, 12, 24, 72, 168, 240, 336, 360, 504, 576, 720, 1440, 2880, 4320, 5760, 8640, 10080, 15120, 17280, 20160, 30240, 40320, 60480, 120960, 181440, 241920, 362880, 483840, 604800, 725760, 1088640, 1209600, 1451520, 2177280, 2419200, 2903040, 3628800, ...

## **Quantité respective de solutions**

1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 15, 21, 29, 35, 37, 49, 58, 59, 68, 79, 98, 111, 160, 224, 256, 317, 382, 426, 431, 563, 576, 624, 774, 865, 883, 1050, 1195, 1265, 1371, 1376, 1742, 1755, 1935, 2095, 2437, 2447, 2944, 3055, 3318, 3324, 3366, 4289, 4369, 4502, ...



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