

**Writing Rules**

ES2

Look at the numbers. Write the rule describing each pattern.

1) 48, 44, 40, 36, 32, 28, 24, 20

**Start at 48. Subtract 4 each time.**  
\_\_\_\_\_2) 13, 18, 23, 28, 33, 38, 43, 48  
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3) 35, 33, 31, 29, 27, 25, 23, 21, 19, 17, 15, 13, 11, 9, 7, 5, 3, 1, 0

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4) 9, 17, 25, 33, 41, 49, 57, 65, 73, 81, 89, 97, 105, 113, 121, 129, 137, 145, 153, 161, 169, 177, 185, 193, 201, 209, 217, 225, 233, 241, 249, 257, 265, 273, 281, 289, 297, 305, 313, 321, 329, 337, 345, 353, 361, 369, 377, 385, 393, 401, 409, 417, 425, 433, 441, 449, 457, 465, 473, 481, 489, 497, 505, 513, 521, 529, 537, 545, 553, 561, 569, 577, 585, 593, 601, 609, 617, 625, 633, 641, 649, 657, 665, 673, 681, 689, 697, 705, 713, 721, 729, 737, 745, 753, 761, 769, 777, 785, 793, 801, 809, 817, 825, 833, 841, 849, 857, 865, 873, 881, 889, 897, 905, 913, 921, 929, 937, 945, 953, 961, 969, 977, 985, 993, 1001

5) 78, 68, 58, 48, 38, 28, 18, 8, -2, -12, -22, -32, -42, -52, -62, -72, -82, -92, -102, -112, -122, -132, -142, -152, -162, -172, -182, -192, -202, -212, -222, -232, -242, -252, -262, -272, -282, -292, -302, -312, -322, -332, -342, -352, -362, -372, -382, -392, -402, -412, -422, -432, -442, -452, -462, -472, -482, -492, -502, -512, -522, -532, -542, -552, -562, -572, -582, -592, -602, -612, -622, -632, -642, -652, -662, -672, -682, -692, -702, -712, -722, -732, -742, -752, -762, -772, -782, -792, -802, -812, -822, -832, -842, -852, -862, -872, -882, -892, -902, -912, -922, -932, -942, -952, -962, -972, -982, -992, -1002

6) 53, 60, 67, 74, 81, 88, 95, 102, 109, 116, 123, 130, 137, 144, 151, 158, 165, 172, 179, 186, 193, 200, 207, 214, 221, 228, 235, 242, 249, 256, 263, 270, 277, 284, 291, 298, 305, 312, 319, 326, 333, 340, 347, 354, 361, 368, 375, 382, 389, 396, 403, 410, 417, 424, 431, 438, 445, 452, 459, 466, 473, 480, 487, 494, 501, 508, 515, 522, 529, 536, 543, 550, 557, 564, 571, 578, 585, 592, 599, 606, 613, 620, 627, 634, 641, 648, 655, 662, 669, 676, 683, 690, 697, 704, 711, 718, 725, 732, 739, 746, 753, 760, 767, 774, 781, 788, 795, 802, 809, 816, 823, 830, 837, 844, 851, 858, 865, 872, 879, 886, 893, 900, 907, 914, 921, 928, 935, 942, 949, 956, 963, 970, 977, 984, 991, 998, 1005

7) 72, 69, 66, 63, 60, 57, 54, 51, 48, 45, 42, 39, 36, 33, 30, 27, 24, 21, 18, 15, 12, 9, 6, 3, 0, -3, -6, -9, -12, -15, -18, -21, -24, -27, -30, -33, -36, -39, -42, -45, -48, -51, -54, -57, -60, -63, -66, -69, -72, -75, -78, -81, -84, -87, -90, -93, -96, -99, -102, -105, -108, -111, -114, -117, -120, -123, -126, -129, -132, -135, -138, -141, -144, -147, -150, -153, -156, -159, -162, -165, -168, -171, -174, -177, -180, -183, -186, -189, -192, -195, -198, -201, -204, -207, -210, -213, -216, -219, -222, -225, -228, -231, -234, -237, -240, -243, -246, -249, -252, -255, -258, -261, -264, -267, -270, -273, -276, -279, -282, -285, -288, -291, -294, -297, -300, -303, -306, -309, -312, -315, -318, -321, -324, -327, -330, -333, -336, -339, -342, -345, -348, -351, -354, -357, -360, -363, -366, -369, -372, -375, -378, -381, -384, -387, -390, -393, -396, -399, -402, -405, -408, -411, -414, -417, -420, -423, -426, -429, -432, -435, -438, -441, -444, -447, -450, -453, -456, -459, -462, -465, -468, -471, -474, -477, -480, -483, -486, -489, -492, -495, -498, -501, -504, -507, -510, -513, -516, -519, -522, -525, -528, -531, -534, -537, -540, -543, -546, -549, -552, -555, -558, -561, -564, -567, -570, -573, -576, -579, -582, -585, -588, -591, -594, -597, -600, -603, -606, -609, -612, -615, -618, -621, -624, -627, -630, -633, -636, -639, -642, -645, -648, -651, -654, -657, -660, -663, -666, -669, -672, -675, -678, -681, -684, -687, -690, -693, -696, -699, -702, -705, -708, -711, -714, -717, -720, -723, -726, -729, -732, -735, -738, -741, -744, -747, -750, -753, -756, -759, -762, -765, -768, -771, -774, -777, -780, -783, -786, -789, -792, -795, -798, -801, -804, -807, -810, -813, -816, -819, -822, -825, -828, -831, -834, -837, -840, -843, -846, -849, -852, -855, -858, -861, -864, -867, -870, -873, -876, -879, -882, -885, -888, -891, -894, -897, -900, -903, -906, -909, -912, -915, -918, -921, -924, -927, -930, -933, -936, -939, -942, -945, -948, -951, -954, -957, -960, -963, -966, -969, -972, -975, -978, -981, -984, -987, -990, -993, -996, -999, -1002

8) 12, 23, 34, 45, 56, 67, 78, 89  
\_\_\_\_\_9) 7, 16, 25, 34, 43, 52, 61, 70  
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