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Set02 for No.9589

$$No01 = [\mathrm{n}(U) = 41, \mathrm{n}(A) = 20, \mathrm{n}(B) = 25, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 34 & \mathrm{n}(A) = 19 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 5 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [N = 60, F = 35, V = 26, X = 12]$$

$$No04 = [N = 114, E = 66, M = 57, B = 55, X = 22, Y = 23, Z = 9]$$

$$No05 = [N = 40, G = 28, \mathrm{W} = 31, R = 20, A = 0, B = 5, C = 19, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 62, \mathrm{n}(A' \cap B') = 16, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 15]$$

$$No07 = [N = 28, A = 14, B = 21, C = 10, \mathrm{D} = 5, E = 11, F = 3]$$

$$No08 = [A = 33, B = 12, C = 27, \mathrm{D} = 11, E = 11, F = 24, G = 1]$$

$$No09 = [N = 600, A = 294, B = 234, C = 274, AB = 92, BC = 62, AC = 132, P = 1]$$

$$No10 = [N = 800, S = 20, A = 440, B = 170, C = 170, \mathrm{D} = 180, E = 430]$$

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Set02 for No.9707

$$No01 = [\mathrm{n}(U) = 36, \mathrm{n}(A) = 17, \mathrm{n}(B) = 23, \mathrm{n}(A \cap B) = 12]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 56 & \mathrm{n}(A) = 26 & \mathrm{n}(B) = 31 & \mathrm{n}(C) = 24 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 12 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 81, F = 42, V = 38, X = 18]$$

$$No04 = [N = 137, E = 64, M = 68, B = 73, X = 9, Y = 39, Z = 20]$$

$$No05 = [N = 39, G = 23, \mathrm{W} = 27, R = 16, A = 5, B = 9, C = 16, \mathrm{D} = 6]$$

$$No06 = [\mathrm{n}(U) = 49, \mathrm{n}(A' \cap B') = 14, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 13]$$

$$No07 = [N = 27, A = 17, B = 9, C = 20, \mathrm{D} = 11, E = 4, F = 6]$$

$$No08 = [A = 32, B = 14, C = 35, \mathrm{D} = 20, E = 21, F = 34, G = 12]$$

$$No09 = [N = 500, A = 250, B = 260, C = 180, AB = 150, BC = 50, AC = 130, P = 6]$$

$$No10 = [N = 630, S = 110, A = 220, B = 170, C = 70, \mathrm{D} = 120, E = 160]$$

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Set02 for No.9821

$$No01 = [\mathrm{n}(U) = 33, \mathrm{n}(A) = 19, \mathrm{n}(B) = 15, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 54 & \mathrm{n}(A) = 30 & \mathrm{n}(B) = 28 & \mathrm{n}(C) = 29 \\ \mathrm{n}(A \cap B) = 16 & \mathrm{n}(A \cap C) = 16 & \mathrm{n}(B \cap C) = 12 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 65, F = 37, V = 36, X = 22]$$

$$No04 = [N = 123, E = 60, M = 70, B = 49, X = 21, Y = 18, Z = 19]$$

$$No05 = [N = 35, G = 23, \mathrm{W} = 21, R = 19, A = 3, B = 9, C = 12, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 41, \mathrm{n}(A' \cap B') = 16, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 5]$$

$$No07 = [N = 33, A = 21, B = 23, C = 13, \mathrm{D} = 6, E = 11, F = 11]$$

$$No08 = [A = 36, B = 23, C = 37, \mathrm{D} = 20, E = 17, F = 37, G = 12]$$

$$No09 = [N = 600, A = 252, B = 272, C = 324, AB = 98, BC = 128, AC = 118, P = 6]$$

$$No10 = [N = 530, S = 70, A = 160, B = 40, C = 130, \mathrm{D} = 70, E = 310]$$

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Set02 for No.10352

$$No01 = [\mathrm{n}(U) = 49, \mathrm{n}(A) = 22, \mathrm{n}(B) = 21, \mathrm{n}(A \cap B) = 8]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 45 & \mathrm{n}(A) = 25 & \mathrm{n}(B) = 20 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 14 & \mathrm{n}(B \cap C) = 7 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 77, F = 39, V = 44, X = 21]$$

$$No04 = [N = 127, E = 68, M = 80, B = 61, X = 11, Y = 20, Z = 19]$$

$$No05 = [N = 24, G = 16, \mathrm{W} = 12, R = 13, A = 3, B = 2, C = 7, \mathrm{D} = 0]$$

$$No06 = [\mathrm{n}(U) = 45, \mathrm{n}(A' \cap B') = 10, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 12]$$

$$No07 = [N = 32, A = 18, B = 14, C = 20, \mathrm{D} = 10, E = 7, F = 8]$$

$$No08 = [A = 28, B = 12, C = 26, \mathrm{D} = 12, E = 10, F = 23, G = 4]$$

$$No09 = [N = 400, A = 217, B = 167, C = 201, AB = 91, BC = 71, AC = 91, P = 12]$$

$$No10 = [N = 480, S = 50, A = 140, B = 60, C = 40, \mathrm{D} = 60, E = 180]$$

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Set02 for No.10380

$$No01 = [\mathrm{n}(U) = 43, \mathrm{n}(A) = 24, \mathrm{n}(B) = 26, \mathrm{n}(A \cap B) = 12]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 55 & \mathrm{n}(A) = 22 & \mathrm{n}(B) = 33 & \mathrm{n}(C) = 30 \\ \mathrm{n}(A \cap B) = 16 & \mathrm{n}(A \cap C) = 12 & \mathrm{n}(B \cap C) = 20 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 66, F = 29, V = 26, X = 11]$$

$$No04 = [N = 107, E = 49, M = 70, B = 51, X = 13, Y = 12, Z = 16]$$

$$No05 = [N = 35, G = 20, \mathrm{W} = 18, R = 16, A = 9, B = 4, C = 12, \mathrm{D} = 3]$$

$$No06 = [\mathrm{n}(U) = 47, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 12]$$

$$No07 = [N = 42, A = 28, B = 24, C = 30, \mathrm{D} = 16, E = 16, F = 15]$$

$$No08 = [A = 38, B = 21, C = 27, \mathrm{D} = 22, E = 11, F = 33, G = 10]$$

$$No09 = [N = 700, A = 394, B = 314, C = 359, AB = 174, BC = 144, AC = 224, P = 17]$$

$$No10 = [N = 640, S = 90, A = 180, B = 140, C = 90, \mathrm{D} = 130, E = 230]$$

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Set02 for No.10412

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 18, \mathrm{n}(B) = 17, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 35 & \mathrm{n}(A) = 14 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 20 \\ \mathrm{n}(A \cap B) = 6 & \mathrm{n}(A \cap C) = 6 & \mathrm{n}(B \cap C) = 11 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 81, F = 43, V = 47, X = 20]$$

$$No04 = [N = 117, E = 66, M = 52, B = 60, X = 13, Y = 45, Z = 15]$$

$$No05 = [N = 32, G = 24, \mathrm{W} = 23, R = 20, A = 0, B = 4, C = 15, \mathrm{D} = 8]$$

$$No06 = [\mathrm{n}(U) = 38, \mathrm{n}(A' \cap B') = 12, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10]$$

$$No07 = [N = 38, A = 24, B = 22, C = 20, \mathrm{D} = 15, E = 11, F = 7]$$

$$No08 = [A = 31, B = 22, C = 33, \mathrm{D} = 15, E = 13, F = 20, G = 11]$$

$$No09 = [N = 800, A = 426, B = 316, C = 338, AB = 184, BC = 64, AC = 184, P = 6]$$

$$No10 = [N = 380, S = 40, A = 140, B = 30, C = 40, \mathrm{D} = 90, E = 190]$$

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Set02 for No.10487

$$No01 = [\,\mathrm{n}(U) = 43,\ \mathrm{n}(A) = 25,\ \mathrm{n}(B) = 19,\ \mathrm{n}(A \cap B) = 13\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 25 & \mathrm{n}(A) = 10 & \mathrm{n}(B) = 14 & \mathrm{n}(C) = 12 \\ \mathrm{n}(A \cap B) = 3 & \mathrm{n}(A \cap C) = 5 & \mathrm{n}(B \cap C) = 6 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [\,N = 77,\ F = 36,\ V = 49,\ X = 22\,]$$

$$No04 = [\,N = 131,\ E = 70,\ M = 61,\ B = 67,\ X = 16,\ Y = 32,\ Z = 14\,]$$

$$No05 = [\,N = 35,\ G = 18,\ \mathrm{W} = 28,\ R = 18,\ A = 2,\ B = 9,\ C = 13,\ \mathrm{D} = 6\,]$$

$$No06 = [\,\mathrm{n}(U) = 38,\ \mathrm{n}(A' \cap B') = 5,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 13\,]$$

$$No07 = [\,N = 34,\ A = 21,\ B = 13,\ C = 22,\ \mathrm{D} = 10,\ E = 5,\ F = 9\,]$$

$$No08 = [\,A = 32,\ B = 18,\ C = 32,\ \mathrm{D} = 19,\ E = 16,\ F = 29,\ G = 12\,]$$

$$No09 = [\,N = 500,\ A = 188,\ B = 308,\ C = 292,\ AB = 136,\ BC = 156,\ AC = 86,\ P = 14\,]$$

$$No10 = [\,N = 630,\ S = 90,\ A = 360,\ B = 180,\ C = 90,\ \mathrm{D} = 170,\ E = 150\,]$$

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Set02 for No.10644

$$No01 = [\,\mathrm{n}(U) = 45,\ \mathrm{n}(A) = 20,\ \mathrm{n}(B) = 23,\ \mathrm{n}(A \cap B) = 10\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 22 & \mathrm{n}(A) = 11 & \mathrm{n}(B) = 12 & \mathrm{n}(C) = 12 \\ \mathrm{n}(A \cap B) = 8 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [\,N = 86,\ F = 40,\ V = 41,\ X = 17\,]$$

$$No04 = [\,N = 85,\ E = 49,\ M = 53,\ B = 26,\ X = 13,\ Y = 7,\ Z = 20\,]$$

$$No05 = [\,N = 32,\ G = 17,\ \mathrm{W} = 23,\ R = 21,\ A = 5,\ B = 7,\ C = 13,\ \mathrm{D} = 10\,]$$

$$No06 = [\,\mathrm{n}(U) = 50,\ \mathrm{n}(A' \cap B') = 17,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 9\,]$$

$$No07 = [\,N = 32,\ A = 21,\ B = 13,\ C = 21,\ \mathrm{D} = 12,\ E = 10,\ F = 7\,]$$

$$No08 = [\,A = 34,\ B = 14,\ C = 38,\ \mathrm{D} = 18,\ E = 22,\ F = 30,\ G = 10\,]$$

$$No09 = [\,N = 400,\ A = 178,\ B = 158,\ C = 130,\ AB = 28,\ BC = 58,\ AC = 68,\ P = 7\,]$$

$$No10 = [\,N = 500,\ S = 40,\ A = 310,\ B = 160,\ C = 100,\ \mathrm{D} = 90,\ E = 190\,]$$

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Set02 for No.11101

$$No01 = [\,\mathrm{n}(U) = 27,\ \mathrm{n}(A) = 12,\ \mathrm{n}(B) = 15,\ \mathrm{n}(A \cap B) = 6\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 39 & \mathrm{n}(A) = 13 & \mathrm{n}(B) = 24 & \mathrm{n}(C) = 15 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 12 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 7 \end{bmatrix}$$

$$No03 = [\,N = 71,\ F = 40,\ V = 41,\ X = 21\,]$$

$$No04 = [\,N = 107,\ E = 70,\ M = 55,\ B = 38,\ X = 19,\ Y = 21,\ Z = 23\,]$$

$$No05 = [\,N = 42,\ G = 20,\ \mathrm{W} = 17,\ R = 26,\ A = 10,\ B = 5,\ C = 5,\ \mathrm{D} = 4\,]$$

$$No06 = [\,\mathrm{n}(U) = 36,\ \mathrm{n}(A' \cap B') = 6,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 8\,]$$

$$No07 = [\,N = 55,\ A = 29,\ B = 33,\ C = 34,\ \mathrm{D} = 18,\ E = 14,\ F = 18\,]$$

$$No08 = [\,A = 35,\ B = 15,\ C = 28,\ \mathrm{D} = 20,\ E = 24,\ F = 39,\ G = 12\,]$$

$$No09 = [\,N = 400,\ A = 228,\ B = 168,\ C = 252,\ AB = 78,\ BC = 118,\ AC = 148,\ P = 7\,]$$

$$No10 = [\,N = 550,\ S = 150,\ A = 180,\ B = 150,\ C = 170,\ \mathrm{D} = 160,\ E = 200\,]$$

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Set02 for No.11613

$$No01 = [\,\mathrm{n}(U) = 47,\ \mathrm{n}(A) = 19,\ \mathrm{n}(B) = 25,\ \mathrm{n}(A \cap B) = 11\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 40 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 24 \\ \mathrm{n}(A \cap B) = 3 & \mathrm{n}(A \cap C) = 9 & \mathrm{n}(B \cap C) = 7 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [\,N = 76,\ F = 36,\ V = 34,\ X = 15\,]$$

$$No04 = [\,N = 125,\ E = 38,\ M = 49,\ B = 66,\ X = 14,\ Y = 39,\ Z = 0\,]$$

$$No05 = [\,N = 45,\ G = 24,\ \mathrm{W} = 30,\ R = 23,\ A = 4,\ B = 9,\ C = 13,\ \mathrm{D} = 3\,]$$

$$No06 = [\,\mathrm{n}(U) = 50,\ \mathrm{n}(A' \cap B') = 16,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10\,]$$

$$No07 = [\,N = 36,\ A = 22,\ B = 23,\ C = 14,\ \mathrm{D} = 6,\ E = 12,\ F = 7\,]$$

$$No08 = [\,A = 23,\ B = 4,\ C = 24,\ \mathrm{D} = 11,\ E = 13,\ F = 22,\ G = 4\,]$$

$$No09 = [\,N = 400,\ A = 128,\ B = 228,\ C = 102,\ AB = 78,\ BC = 48,\ AC = 8,\ P = 2\,]$$

$$No10 = [\,N = 930,\ S = 70,\ A = 560,\ B = 300,\ C = 310,\ \mathrm{D} = 250,\ E = 400\,]$$

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Set02 for No.11720

$$No01 = [\,\mathrm{n}(U) = 38,\ \mathrm{n}(A) = 18,\ \mathrm{n}(B) = 13,\ \mathrm{n}(A \cap B) = 8\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 42 & \mathrm{n}(A) = 24 & \mathrm{n}(B) = 28 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 13 & \mathrm{n}(B \cap C) = 12 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 64,\ F = 31,\ V = 23,\ X = 12\,]$$

$$No04 = [\,N = 78,\ E = 42,\ M = 52,\ B = 40,\ X = 0,\ Y = 19,\ Z = 21\,]$$

$$No05 = [\,N = 20,\ G = 10,\ \mathrm{W} = 14,\ R = 13,\ A = 2,\ B = 2,\ C = 6,\ \mathrm{D} = 5\,]$$

$$No06 = [\,\mathrm{n}(U) = 55,\ \mathrm{n}(A' \cap B') = 16,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 14\,]$$

$$No07 = [\,N = 48,\ A = 31,\ B = 26,\ C = 22,\ \mathrm{D} = 15,\ E = 13,\ F = 10\,]$$

$$No08 = [\,A = 39,\ B = 19,\ C = 26,\ \mathrm{D} = 18,\ E = 9,\ F = 27,\ G = 9\,]$$

$$No09 = [\,N = 600,\ A = 324,\ B = 244,\ C = 204,\ AB = 102,\ BC = 52,\ AC = 162,\ P = 6\,]$$

$$No10 = [\,N = 660,\ S = 80,\ A = 390,\ B = 320,\ C = 170,\ \mathrm{D} = 220,\ E = 160\,]$$

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Set02 for No.12122

$$No01 = [\,\mathrm{n}(U) = 39,\ \mathrm{n}(A) = 22,\ \mathrm{n}(B) = 24,\ \mathrm{n}(A \cap B) = 12\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 29 & \mathrm{n}(A) = 11 & \mathrm{n}(B) = 11 & \mathrm{n}(C) = 14 \\ \mathrm{n}(A \cap B) = 1 & \mathrm{n}(A \cap C) = 2 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 1 \end{bmatrix}$$

$$No03 = [\,N = 73,\ F = 37,\ V = 30,\ X = 19\,]$$

$$No04 = [\,N = 117,\ E = 64,\ M = 70,\ B = 52,\ X = 14,\ Y = 19,\ Z = 18\,]$$

$$No05 = [\,N = 33,\ G = 13,\ \mathrm{W} = 17,\ R = 21,\ A = 7,\ B = 8,\ C = 4,\ \mathrm{D} = 2\,]$$

$$No06 = [\,\mathrm{n}(U) = 42,\ \mathrm{n}(A' \cap B') = 13,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7\,]$$

$$No07 = [\,N = 36,\ A = 13,\ B = 28,\ C = 16,\ \mathrm{D} = 3,\ E = 12,\ F = 8\,]$$

$$No08 = [\,A = 21,\ B = 9,\ C = 18,\ \mathrm{D} = 14,\ E = 9,\ F = 22,\ G = 6\,]$$

$$No09 = [\,N = 400,\ A = 248,\ B = 248,\ C = 192,\ AB = 166,\ BC = 126,\ AC = 96,\ P = 20\,]$$

$$No10 = [\,N = 740,\ S = 140,\ A = 370,\ B = 180,\ C = 230,\ \mathrm{D} = 280,\ E = 150\,]$$

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Set02 for No.12133

$$No01 = [n(U) = 48, n(A) = 21, n(B) = 26, n(A \cap B) = 14]$$

$$No02 = \begin{bmatrix} n(U) = 60 & n(A) = 33 & n(B) = 32 & n(C) = 27 \\ n(A \cap B) = 13 & n(A \cap C) = 16 & n(B \cap C) = 15 & n(\text{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 67, F = 30, V = 41, X = 18]$$

$$No04 = [N = 89, E = 41, M = 40, B = 49, X = 18, Y = 23, Z = 0]$$

$$No05 = [N = 28, G = 16, \mathrm{W} = 14, R = 7, A = 1, B = 8, C = 3, \mathrm{D} = 0]$$

$$No06 = [n(U) = 55, n(A' \cap B') = 8, (n(B \cap A') = n(A \cap B')) = 15]$$

$$No07 = [N = 33, A = 22, B = 16, C = 13, \mathrm{D} = 8, E = 5, F = 6]$$

$$No08 = [A = 30, B = 10, C = 16, \mathrm{D} = 15, E = 9, F = 28, G = 4]$$

$$No09 = [N = 800, A = 399, B = 359, C = 443, AB = 163, BC = 223, AC = 223, P = 15]$$

$$No10 = [N = 760, S = 140, A = 320, B = 70, C = 170, \mathrm{D} = 120, E = 400]$$

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Set02 for No.12317

$$No01 = [n(U) = 40, n(A) = 24, n(B) = 16, n(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} n(U) = 49 & n(A) = 25 & n(B) = 19 & n(C) = 23 \\ n(A \cap B) = 13 & n(A \cap C) = 12 & n(B \cap C) = 9 & n(\text{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 84, F = 38, V = 31, X = 12]$$

$$No04 = [N = 104, E = 43, M = 40, B = 53, X = 21, Y = 33, Z = 0]$$

$$No05 = [N = 30, G = 17, \mathrm{W} = 12, R = 17, A = 9, B = 4, C = 8, \mathrm{D} = 2]$$

$$No06 = [n(U) = 42, n(A' \cap B') = 10, (n(B \cap A') = n(A \cap B')) = 9]$$

$$No07 = [N = 30, A = 18, B = 15, C = 20, \mathrm{D} = 10, E = 10, F = 9]$$

$$No08 = [A = 37, B = 17, C = 30, \mathrm{D} = 17, E = 19, F = 38, G = 8]$$

$$No09 = [N = 900, A = 418, B = 428, C = 428, AB = 188, BC = 198, AC = 168, P = 7]$$

$$No10 = [N = 540, S = 40, A = 290, B = 210, C = 160, \mathrm{D} = 200, E = 180]$$

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Set02 for No.12380

$$No01 = [n(U) = 28, n(A) = 12, n(B) = 16, n(A \cap B) = 6]$$

$$No02 = \begin{bmatrix} n(U) = 36 & n(A) = 16 & n(B) = 26 & n(C) = 20 \\ n(A \cap B) = 13 & n(A \cap C) = 8 & n(B \cap C) = 11 & n(\text{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 64, F = 34, V = 32, X = 13]$$

$$No04 = [N = 105, E = 49, M = 59, B = 70, X = 0, Y = 34, Z = 13]$$

$$No05 = [N = 39, G = 22, \mathrm{W} = 26, R = 23, A = 7, B = 5, C = 16, \mathrm{D} = 6]$$

$$No06 = [n(U) = 52, n(A' \cap B') = 9, (n(B \cap A') = n(A \cap B')) = 14]$$

$$No07 = [N = 38, A = 29, B = 27, C = 23, \mathrm{D} = 17, E = 18, F = 15]$$

$$No08 = [A = 37, B = 20, C = 26, \mathrm{D} = 16, E = 11, F = 21, G = 8]$$

$$No09 = [N = 600, A = 236, B = 246, C = 206, AB = 44, BC = 84, AC = 74, P = 3]$$

$$No10 = [N = 440, S = 20, A = 280, B = 140, C = 90, \mathrm{D} = 210, E = 40]$$

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Set02 for No.12498

$$No01 = [\,\mathrm{n}(U) = 38,\ \mathrm{n}(A) = 18,\ \mathrm{n}(B) = 27,\ \mathrm{n}(A \cap B) = 12\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 51 & \mathrm{n}(A) = 23 & \mathrm{n}(B) = 29 & \mathrm{n}(C) = 20 \\ \mathrm{n}(A \cap B) = 13 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 10 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 80,\ F = 32,\ V = 37,\ X = 15\,]$$

$$No04 = [\,N = 102,\ E = 55,\ M = 64,\ B = 60,\ X = 8,\ Y = 22,\ Z = 10\,]$$

$$No05 = [\,N = 41,\ G = 29,\ \mathrm{W} = 28,\ R = 18,\ A = 0,\ B = 7,\ C = 16,\ \mathrm{D} = 6\,]$$

$$No06 = [\,\mathrm{n}(U) = 63,\ \mathrm{n}(A' \cap B') = 14,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 16\,]$$

$$No07 = [\,N = 38,\ A = 27,\ B = 18,\ C = 27,\ \mathrm{D} = 17,\ E = 14,\ F = 13\,]$$

$$No08 = [\,A = 23,\ B = 9,\ C = 29,\ \mathrm{D} = 12,\ E = 12,\ F = 33,\ G = 2\,]$$

$$No09 = [\,N = 700,\ A = 357,\ B = 297,\ C = 321,\ AB = 207,\ BC = 87,\ AC = 177,\ P = 11\,]$$

$$No10 = [\,N = 720,\ S = 80,\ A = 330,\ B = 190,\ C = 240,\ \mathrm{D} = 140,\ E = 300\,]$$

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Set02 for No.12554

$$No01 = [\,\mathrm{n}(U) = 42,\ \mathrm{n}(A) = 21,\ \mathrm{n}(B) = 28,\ \mathrm{n}(A \cap B) = 14\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 39 & \mathrm{n}(A) = 16 & \mathrm{n}(B) = 27 & \mathrm{n}(C) = 15 \\ \mathrm{n}(A \cap B) = 14 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [\,N = 65,\ F = 31,\ V = 33,\ X = 15\,]$$

$$No04 = [\,N = 126,\ E = 54,\ M = 72,\ B = 62,\ X = 0,\ Y = 34,\ Z = 23\,]$$

$$No05 = [\,N = 35,\ G = 19,\ \mathrm{W} = 22,\ R = 20,\ A = 5,\ B = 6,\ C = 11,\ \mathrm{D} = 5\,]$$

$$No06 = [\,\mathrm{n}(U) = 51,\ \mathrm{n}(A' \cap B') = 11,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 14\,]$$

$$No07 = [\,N = 28,\ A = 10,\ B = 19,\ C = 14,\ \mathrm{D} = 6,\ E = 3,\ F = 9\,]$$

$$No08 = [\,A = 30,\ B = 16,\ C = 31,\ \mathrm{D} = 17,\ E = 18,\ F = 37,\ G = 8\,]$$

$$No09 = [\,N = 600,\ A = 348,\ B = 238,\ C = 300,\ AB = 120,\ BC = 120,\ AC = 220,\ P = 16\,]$$

$$No10 = [\,N = 630,\ S = 40,\ A = 300,\ B = 170,\ C = 130,\ \mathrm{D} = 160,\ E = 220\,]$$

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Set02 for No.12836

$$No01 = [\,\mathrm{n}(U) = 48,\ \mathrm{n}(A) = 25,\ \mathrm{n}(B) = 30,\ \mathrm{n}(A \cap B) = 15\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 62 & \mathrm{n}(A) = 31 & \mathrm{n}(B) = 32 & \mathrm{n}(C) = 31 \\ \mathrm{n}(A \cap B) = 13 & \mathrm{n}(A \cap C) = 17 & \mathrm{n}(B \cap C) = 18 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [\,N = 87,\ F = 42,\ V = 48,\ X = 25\,]$$

$$No04 = [\,N = 129,\ E = 74,\ M = 68,\ B = 77,\ X = 14,\ Y = 39,\ Z = 21\,]$$

$$No05 = [\,N = 34,\ G = 20,\ \mathrm{W} = 18,\ R = 8,\ A = 4,\ B = 10,\ C = 8,\ \mathrm{D} = 1\,]$$

$$No06 = [\,\mathrm{n}(U) = 41,\ \mathrm{n}(A' \cap B') = 12,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10\,]$$

$$No07 = [\,N = 48,\ A = 31,\ B = 27,\ C = 33,\ \mathrm{D} = 18,\ E = 18,\ F = 15\,]$$

$$No08 = [\,A = 34,\ B = 14,\ C = 23,\ \mathrm{D} = 15,\ E = 13,\ F = 25,\ G = 5\,]$$

$$No09 = [\,N = 500,\ A = 263,\ B = 263,\ C = 287,\ AB = 191,\ BC = 91,\ AC = 151,\ P = 16\,]$$

$$No10 = [\,N = 690,\ S = 150,\ A = 210,\ B = 170,\ C = 130,\ \mathrm{D} = 170,\ E = 210\,]$$

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Set02 for No.12959

$$No01 = [\mathrm{n}(U) = 32, \mathrm{n}(A) = 19, \mathrm{n}(B) = 14, \mathrm{n}(A \cap B) = 6]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 47 & \mathrm{n}(A) = 22 & \mathrm{n}(B) = 26 & \mathrm{n}(C) = 20 \\ \mathrm{n}(A \cap B) = 13 & \mathrm{n}(A \cap C) = 7 & \mathrm{n}(B \cap C) = 11 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [N = 66, F = 32, V = 28, X = 17]$$

$$No04 = [N = 133, E = 71, M = 65, B = 65, X = 15, Y = 31, Z = 23]$$

$$No05 = [N = 44, G = 24, \mathrm{W} = 27, R = 20, A = 6, B = 8, C = 13, \mathrm{D} = 5]$$

$$No06 = [\mathrm{n}(U) = 31, \mathrm{n}(A' \cap B') = 11, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 42, A = 22, B = 26, C = 25, \mathrm{D} = 14, E = 13, F = 10]$$

$$No08 = [A = 29, B = 22, C = 38, \mathrm{D} = 10, E = 21, F = 25, G = 10]$$

$$No09 = [N = 500, A = 225, B = 195, C = 235, AB = 45, BC = 105, AC = 85, P = 4]$$

$$No10 = [N = 480, S = 50, A = 280, B = 170, C = 140, \mathrm{D} = 90, E = 120]$$

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Set02 for No.12967

$$No01 = [\mathrm{n}(U) = 27, \mathrm{n}(A) = 13, \mathrm{n}(B) = 16, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 52 & \mathrm{n}(A) = 24 & \mathrm{n}(B) = 25 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 5 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 11 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 1 \end{bmatrix}$$

$$No03 = [N = 99, F = 54, V = 49, X = 27]$$

$$No04 = [N = 104, E = 67, M = 49, B = 36, X = 19, Y = 27, Z = 23]$$

$$No05 = [N = 39, G = 18, \mathrm{W} = 22, R = 29, A = 9, B = 4, C = 10, \mathrm{D} = 10]$$

$$No06 = [\mathrm{n}(U) = 41, \mathrm{n}(A' \cap B') = 9, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10]$$

$$No07 = [N = 43, A = 26, B = 23, C = 22, \mathrm{D} = 13, E = 11, F = 12]$$

$$No08 = [A = 10, B = 7, C = 23, \mathrm{D} = 4, E = 14, F = 20, G = 2]$$

$$No09 = [N = 500, A = 230, B = 250, C = 310, AB = 110, BC = 120, AC = 120, P = 10]$$

$$No10 = [N = 430, S = 40, A = 260, B = 130, C = 120, \mathrm{D} = 90, E = 190]$$

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Set02 for No.12975

$$No01 = [\mathrm{n}(U) = 39, \mathrm{n}(A) = 26, \mathrm{n}(B) = 18, \mathrm{n}(A \cap B) = 11]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 60 & \mathrm{n}(A) = 33 & \mathrm{n}(B) = 29 & \mathrm{n}(C) = 28 \\ \mathrm{n}(A \cap B) = 16 & \mathrm{n}(A \cap C) = 15 & \mathrm{n}(B \cap C) = 13 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 62, F = 40, V = 29, X = 18]$$

$$No04 = [N = 119, E = 52, M = 67, B = 81, X = 0, Y = 43, Z = 8]$$

$$No05 = [N = 26, G = 14, \mathrm{W} = 15, R = 18, A = 4, B = 0, C = 7, \mathrm{D} = 1]$$

$$No06 = [\mathrm{n}(U) = 45, \mathrm{n}(A' \cap B') = 6, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 15]$$

$$No07 = [N = 39, A = 24, B = 19, C = 31, \mathrm{D} = 19, E = 14, F = 12]$$

$$No08 = [A = 28, B = 18, C = 30, \mathrm{D} = 11, E = 13, F = 21, G = 11]$$

$$No09 = [N = 700, A = 324, B = 274, C = 355, AB = 134, BC = 134, AC = 104, P = 2]$$

$$No10 = [N = 510, S = 20, A = 210, B = 50, C = 140, \mathrm{D} = 120, E = 230]$$

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Set02 for No.12979

$$No01 = [\mathrm{n}(U) = 28, \mathrm{n}(A) = 11, \mathrm{n}(B) = 16, \mathrm{n}(A \cap B) = 5]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 22 & \mathrm{n}(A) = 14 & \mathrm{n}(B) = 10 & \mathrm{n}(C) = 10 \\ \mathrm{n}(A \cap B) = 5 & \mathrm{n}(A \cap C) = 7 & \mathrm{n}(B \cap C) = 7 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [N = 79, F = 42, V = 40, X = 25]$$

$$No04 = [N = 112, E = 65, M = 66, B = 64, X = 9, Y = 21, Z = 23]$$

$$No05 = [N = 25, G = 16, \mathrm{W} = 15, R = 13, A = 1, B = 3, C = 7, \mathrm{D} = 0]$$

$$No06 = [\mathrm{n}(U) = 47, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 11]$$

$$No07 = [N = 42, A = 29, B = 27, C = 18, \mathrm{D} = 10, E = 14, F = 12]$$

$$No08 = [A = 21, B = 3, C = 21, \mathrm{D} = 8, E = 9, F = 19, G = 2]$$

$$No09 = [N = 600, A = 393, B = 273, C = 223, AB = 185, BC = 75, AC = 185, P = 11]$$

$$No10 = [N = 730, S = 150, A = 430, B = 190, C = 240, \mathrm{D} = 280, E = 170]$$

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Set02 for No.13010

$$No01 = [\mathrm{n}(U) = 31, \mathrm{n}(A) = 10, \mathrm{n}(B) = 18, \mathrm{n}(A \cap B) = 5]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 17 & \mathrm{n}(B) = 18 & \mathrm{n}(C) = 10 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 3 & \mathrm{n}(B \cap C) = 5 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 67, F = 39, V = 26, X = 14]$$

$$No04 = [N = 103, E = 36, M = 37, B = 63, X = 7, Y = 42, Z = 0]$$

$$No05 = [N = 27, G = 16, \mathrm{W} = 18, R = 16, A = 6, B = 4, C = 13, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 36, \mathrm{n}(A' \cap B') = 7, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 9]$$

$$No07 = [N = 47, A = 22, B = 30, C = 32, \mathrm{D} = 13, E = 14, F = 16]$$

$$No08 = [A = 25, B = 8, C = 14, \mathrm{D} = 11, E = 8, F = 17, G = 4]$$

$$No09 = [N = 500, A = 309, B = 279, C = 291, AB = 163, BC = 203, AC = 163, P = 22]$$

$$No10 = [N = 770, S = 20, A = 510, B = 270, C = 240, \mathrm{D} = 300, E = 260]$$

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Set02 for No.13020

$$No01 = [\mathrm{n}(U) = 47, \mathrm{n}(A) = 25, \mathrm{n}(B) = 21, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 45 & \mathrm{n}(A) = 21 & \mathrm{n}(B) = 29 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [N = 69, F = 29, V = 41, X = 16]$$

$$No04 = [N = 134, E = 71, M = 75, B = 65, X = 14, Y = 35, Z = 22]$$

$$No05 = [N = 38, G = 17, \mathrm{W} = 20, R = 22, A = 10, B = 3, C = 9, \mathrm{D} = 3]$$

$$No06 = [\mathrm{n}(U) = 47, \mathrm{n}(A' \cap B') = 8, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 13]$$

$$No07 = [N = 25, A = 15, B = 14, C = 18, \mathrm{D} = 10, E = 9, F = 10]$$

$$No08 = [A = 26, B = 14, C = 23, \mathrm{D} = 16, E = 10, F = 30, G = 4]$$

$$No09 = [N = 700, A = 348, B = 398, C = 421, AB = 206, BC = 236, AC = 186, P = 15]$$

$$No10 = [N = 680, S = 40, A = 370, B = 250, C = 140, \mathrm{D} = 200, E = 150]$$

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Set02 for No.13028

$$No01 = [\mathrm{n}(U) = 44, \mathrm{n}(A) = 21, \mathrm{n}(B) = 19, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 20 & \mathrm{n}(C) = 23 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [N = 71, F = 43, V = 32, X = 19]$$

$$No04 = [N = 107, E = 59, M = 41, B = 62, X = 8, Y = 35, Z = 14]$$

$$No05 = [N = 42, G = 27, \mathrm{W} = 27, R = 21, A = 0, B = 8, C = 12, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 41, \mathrm{n}(A' \cap B') = 6, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10]$$

$$No07 = [N = 38, A = 22, B = 22, C = 28, \mathrm{D} = 19, E = 10, F = 15]$$

$$No08 = [A = 18, B = 9, C = 15, \mathrm{D} = 9, E = 6, F = 13, G = 6]$$

$$No09 = [N = 600, A = 235, B = 335, C = 285, AB = 159, BC = 169, AC = 89, P = 11]$$

$$No10 = [N = 840, S = 120, A = 520, B = 310, C = 300, \mathrm{D} = 210, E = 270]$$

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Set02 for No.13053

$$No01 = [\mathrm{n}(U) = 39, \mathrm{n}(A) = 15, \mathrm{n}(B) = 20, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 31 & \mathrm{n}(A) = 21 & \mathrm{n}(B) = 17 & \mathrm{n}(C) = 12 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 5 & \mathrm{n}(B \cap C) = 7 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 1 \end{bmatrix}$$

$$No03 = [N = 103, F = 52, V = 50, X = 25]$$

$$No04 = [N = 113, E = 58, M = 47, B = 68, X = 22, Y = 32, Z = 11]$$

$$No05 = [N = 33, G = 21, \mathrm{W} = 20, R = 13, A = 6, B = 6, C = 14, \mathrm{D} = 5]$$

$$No06 = [\mathrm{n}(U) = 41, \mathrm{n}(A' \cap B') = 14, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 5]$$

$$No07 = [N = 38, A = 21, B = 23, C = 14, \mathrm{D} = 4, E = 9, F = 9]$$

$$No08 = [A = 36, B = 20, C = 29, \mathrm{D} = 22, E = 19, F = 36, G = 11]$$

$$No09 = [N = 600, A = 172, B = 352, C = 256, AB = 136, BC = 136, AC = 76, P = 8]$$

$$No10 = [N = 680, S = 130, A = 220, B = 90, C = 160, \mathrm{D} = 90, E = 330]$$

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Set02 for No.13068

$$No01 = [\mathrm{n}(U) = 35, \mathrm{n}(A) = 17, \mathrm{n}(B) = 13, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 39 & \mathrm{n}(A) = 20 & \mathrm{n}(B) = 20 & \mathrm{n}(C) = 27 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 12 & \mathrm{n}(B \cap C) = 10 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 2 \end{bmatrix}$$

$$No03 = [N = 78, F = 35, V = 45, X = 21]$$

$$No04 = [N = 101, E = 65, M = 36, B = 54, X = 21, Y = 28, Z = 10]$$

$$No05 = [N = 42, G = 26, \mathrm{W} = 17, R = 25, A = 9, B = 3, C = 10, \mathrm{D} = 6]$$

$$No06 = [\mathrm{n}(U) = 27, \mathrm{n}(A' \cap B') = 5, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 8]$$

$$No07 = [N = 30, A = 13, B = 15, C = 18, \mathrm{D} = 6, E = 7, F = 8]$$

$$No08 = [A = 22, B = 9, C = 21, \mathrm{D} = 9, E = 10, F = 29, G = 1]$$

$$No09 = [N = 400, A = 200, B = 280, C = 190, AB = 170, BC = 150, AC = 110, P = 25]$$

$$No10 = [N = 630, S = 10, A = 480, B = 190, C = 310, \mathrm{D} = 280, E = 300]$$

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Set02 for No.13086

$$No01 = [\mathrm{n}(U) = 46, \mathrm{n}(A) = 22, \mathrm{n}(B) = 28, \mathrm{n}(A \cap B) = 14]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 51 & \mathrm{n}(A) = 29 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 25 \\ \mathrm{n}(A \cap B) = 14 & \mathrm{n}(A \cap C) = 14 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [N = 85, F = 36, V = 35, X = 11]$$

$$No04 = [N = 103, E = 47, M = 52, B = 40, X = 14, Y = 19, Z = 17]$$

$$No05 = [N = 32, G = 17, \mathrm{W} = 18, R = 16, A = 5, B = 7, C = 8, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 27, \mathrm{n}(A' \cap B') = 5, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 41, A = 19, B = 33, C = 23, \mathrm{D} = 9, E = 16, F = 16]$$

$$No08 = [A = 33, B = 20, C = 27, \mathrm{D} = 16, E = 12, F = 31, G = 8]$$

$$No09 = [N = 400, A = 154, B = 234, C = 276, AB = 130, BC = 180, AC = 130, P = 27]$$

$$No10 = [N = 530, S = 60, A = 270, B = 130, C = 50, \mathrm{D} = 190, E = 190]$$

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Set02 for No.13111

$$No01 = [\mathrm{n}(U) = 32, \mathrm{n}(A) = 20, \mathrm{n}(B) = 14, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 51 & \mathrm{n}(A) = 25 & \mathrm{n}(B) = 30 & \mathrm{n}(C) = 26 \\ \mathrm{n}(A \cap B) = 18 & \mathrm{n}(A \cap C) = 12 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 101, F = 49, V = 50, X = 25]$$

$$No04 = [N = 110, E = 64, M = 42, B = 63, X = 23, Y = 38, Z = 9]$$

$$No05 = [N = 38, G = 21, \mathrm{W} = 18, R = 21, A = 8, B = 2, C = 9, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 40, \mathrm{n}(A' \cap B') = 5, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 12]$$

$$No07 = [N = 34, A = 14, B = 22, C = 25, \mathrm{D} = 10, E = 12, F = 13]$$

$$No08 = [A = 20, B = 7, C = 19, \mathrm{D} = 10, E = 14, F = 20, G = 7]$$

$$No09 = [N = 400, A = 193, B = 173, C = 135, AB = 33, BC = 33, AC = 103, P = 2]$$

$$No10 = [N = 810, S = 90, A = 450, B = 240, C = 250, \mathrm{D} = 220, E = 360]$$

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Set02 for No.13116

$$No01 = [\mathrm{n}(U) = 46, \mathrm{n}(A) = 24, \mathrm{n}(B) = 25, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 13 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 20 \\ \mathrm{n}(A \cap B) = 6 & \mathrm{n}(A \cap C) = 6 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [N = 71, F = 39, V = 43, X = 26]$$

$$No04 = [N = 116, E = 58, M = 62, B = 60, X = 20, Y = 21, Z = 9]$$

$$No05 = [N = 52, G = 25, \mathrm{W} = 29, R = 30, A = 9, B = 10, C = 11, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 40, \mathrm{n}(A' \cap B') = 10, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 31, A = 11, B = 16, C = 21, \mathrm{D} = 4, E = 4, F = 9]$$

$$No08 = [A = 30, B = 15, C = 26, \mathrm{D} = 22, E = 21, F = 38, G = 12]$$

$$No09 = [N = 500, A = 223, B = 253, C = 227, AB = 111, BC = 91, AC = 151, P = 10]$$

$$No10 = [N = 750, S = 80, A = 410, B = 190, C = 290, \mathrm{D} = 230, E = 280]$$

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Set02 for No.13122

$$No01 = [\,\mathrm{n}(U) = 44,\ \mathrm{n}(A) = 18,\ \mathrm{n}(B) = 28,\ \mathrm{n}(A \cap B) = 13\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 54 & \mathrm{n}(A) = 27 & \mathrm{n}(B) = 25 & \mathrm{n}(C) = 28 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 17 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [\,N = 75,\ F = 39,\ V = 31,\ X = 13\,]$$

$$No04 = [\,N = 127,\ E = 55,\ M = 63,\ B = 80,\ X = 0,\ Y = 44,\ Z = 14\,]$$

$$No05 = [\,N = 33,\ G = 24,\ \mathrm{W} = 15,\ R = 14,\ A = 6,\ B = 3,\ C = 12,\ \mathrm{D} = 2\,]$$

$$No06 = [\,\mathrm{n}(U) = 31,\ \mathrm{n}(A' \cap B') = 7,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 8\,]$$

$$No07 = [\,N = 35,\ A = 18,\ B = 24,\ C = 15,\ \mathrm{D} = 7,\ E = 11,\ F = 8\,]$$

$$No08 = [\,A = 28,\ B = 20,\ C = 41,\ \mathrm{D} = 15,\ E = 23,\ F = 33,\ G = 11\,]$$

$$No09 = [\,N = 700,\ A = 352,\ B = 372,\ C = 287,\ AB = 220,\ BC = 160,\ AC = 120,\ P = 12\,]$$

$$No10 = [\,N = 620,\ S = 20,\ A = 250,\ B = 150,\ C = 160,\ \mathrm{D} = 180,\ E = 300\,]$$

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Set02 for No.13123

$$No01 = [\,\mathrm{n}(U) = 56,\ \mathrm{n}(A) = 26,\ \mathrm{n}(B) = 28,\ \mathrm{n}(A \cap B) = 13\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 16 & \mathrm{n}(B) = 21 & \mathrm{n}(C) = 13 \\ \mathrm{n}(A \cap B) = 5 & \mathrm{n}(A \cap C) = 7 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 81,\ F = 43,\ V = 32,\ X = 19\,]$$

$$No04 = [\,N = 124,\ E = 54,\ M = 53,\ B = 69,\ X = 14,\ Y = 37,\ Z = 0\,]$$

$$No05 = [\,N = 20,\ G = 9,\ \mathrm{W} = 8,\ R = 14,\ A = 6,\ B = 2,\ C = 3,\ \mathrm{D} = 0\,]$$

$$No06 = [\,\mathrm{n}(U) = 61,\ \mathrm{n}(A' \cap B') = 17,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17\,]$$

$$No07 = [\,N = 44,\ A = 19,\ B = 27,\ C = 29,\ \mathrm{D} = 12,\ E = 9,\ F = 13\,]$$

$$No08 = [\,A = 23,\ B = 10,\ C = 18,\ \mathrm{D} = 7,\ E = 2,\ F = 8,\ G = 2\,]$$

$$No09 = [\,N = 500,\ A = 290,\ B = 220,\ C = 190,\ AB = 140,\ BC = 30,\ AC = 130,\ P = 4\,]$$

$$No10 = [\,N = 770,\ S = 150,\ A = 290,\ B = 190,\ C = 140,\ \mathrm{D} = 40,\ E = 280\,]$$

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Set02 for No.13126

$$No01 = [\,\mathrm{n}(U) = 36,\ \mathrm{n}(A) = 18,\ \mathrm{n}(B) = 13,\ \mathrm{n}(A \cap B) = 8\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 34 & \mathrm{n}(A) = 20 & \mathrm{n}(B) = 12 & \mathrm{n}(C) = 15 \\ \mathrm{n}(A \cap B) = 7 & \mathrm{n}(A \cap C) = 11 & \mathrm{n}(B \cap C) = 4 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [\,N = 84,\ F = 44,\ V = 40,\ X = 23\,]$$

$$No04 = [\,N = 122,\ E = 58,\ M = 60,\ B = 62,\ X = 11,\ Y = 32,\ Z = 14\,]$$

$$No05 = [\,N = 34,\ G = 20,\ \mathrm{W} = 21,\ R = 21,\ A = 0,\ B = 5,\ C = 7,\ \mathrm{D} = 5\,]$$

$$No06 = [\,\mathrm{n}(U) = 31,\ \mathrm{n}(A' \cap B') = 5,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 5\,]$$

$$No07 = [\,N = 34,\ A = 23,\ B = 15,\ C = 20,\ \mathrm{D} = 13,\ E = 11,\ F = 5\,]$$

$$No08 = [\,A = 29,\ B = 12,\ C = 20,\ \mathrm{D} = 23,\ E = 16,\ F = 33,\ G = 11\,]$$

$$No09 = [\,N = 600,\ A = 355,\ B = 315,\ C = 405,\ AB = 169,\ BC = 229,\ AC = 179,\ P = 16\,]$$

$$No10 = [\,N = 760,\ S = 80,\ A = 340,\ B = 250,\ C = 210,\ \mathrm{D} = 180,\ E = 280\,]$$

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Set02 for No.13325

$$No01 = [\,\mathrm{n}(U) = 44,\ \mathrm{n}(A) = 24,\ \mathrm{n}(B) = 21,\ \mathrm{n}(A \cap B) = 15\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 41 & \mathrm{n}(A) = 24 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 29 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 15 & \mathrm{n}(B \cap C) = 13 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [\,N = 78,\ F = 43,\ V = 33,\ X = 20\,]$$

$$No04 = [\,N = 103,\ E = 48,\ M = 56,\ B = 63,\ X = 0,\ Y = 28,\ Z = 10\,]$$

$$No05 = [\,N = 28,\ G = 11,\ \mathrm{W} = 21,\ R = 16,\ A = 3,\ B = 9,\ C = 7,\ \mathrm{D} = 6\,]$$

$$No06 = [\,\mathrm{n}(U) = 45,\ \mathrm{n}(A' \cap B') = 14,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 12\,]$$

$$No07 = [\,N = 45,\ A = 32,\ B = 21,\ C = 27,\ \mathrm{D} = 18,\ E = 17,\ F = 9\,]$$

$$No08 = [\,A = 26,\ B = 13,\ C = 23,\ \mathrm{D} = 15,\ E = 15,\ F = 23,\ G = 10\,]$$

$$No09 = [\,N = 600,\ A = 339,\ B = 319,\ C = 301,\ AB = 177,\ BC = 127,\ AC = 127,\ P = 11\,]$$

$$No10 = [\,N = 570,\ S = 80,\ A = 410,\ B = 150,\ C = 200,\ \mathrm{D} = 260,\ E = 160\,]$$

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Set02 for No.13421

$$No01 = [\,\mathrm{n}(U) = 39,\ \mathrm{n}(A) = 17,\ \mathrm{n}(B) = 18,\ \mathrm{n}(A \cap B) = 11\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 38 & \mathrm{n}(A) = 19 & \mathrm{n}(B) = 17 & \mathrm{n}(C) = 13 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 6 & \mathrm{n}(B \cap C) = 7 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [\,N = 76,\ F = 38,\ V = 48,\ X = 24\,]$$

$$No04 = [\,N = 95,\ E = 51,\ M = 56,\ B = 52,\ X = 12,\ Y = 20,\ Z = 13\,]$$

$$No05 = [\,N = 30,\ G = 14,\ \mathrm{W} = 21,\ R = 15,\ A = 5,\ B = 10,\ C = 10,\ \mathrm{D} = 5\,]$$

$$No06 = [\,\mathrm{n}(U) = 42,\ \mathrm{n}(A' \cap B') = 7,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 13\,]$$

$$No07 = [\,N = 28,\ A = 15,\ B = 14,\ C = 16,\ \mathrm{D} = 4,\ E = 3,\ F = 10\,]$$

$$No08 = [\,A = 35,\ B = 17,\ C = 32,\ \mathrm{D} = 18,\ E = 19,\ F = 35,\ G = 11\,]$$

$$No09 = [\,N = 700,\ A = 406,\ B = 426,\ C = 418,\ AB = 238,\ BC = 218,\ AC = 248,\ P = 17\,]$$

$$No10 = [\,N = 660,\ S = 120,\ A = 190,\ B = 110,\ C = 100,\ \mathrm{D} = 100,\ E = 240\,]$$

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Set02 for No.13646

$$No01 = [\,\mathrm{n}(U) = 43,\ \mathrm{n}(A) = 25,\ \mathrm{n}(B) = 24,\ \mathrm{n}(A \cap B) = 15\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 40 & \mathrm{n}(A) = 22 & \mathrm{n}(B) = 21 & \mathrm{n}(C) = 17 \\ \mathrm{n}(A \cap B) = 9 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 82,\ F = 43,\ V = 38,\ X = 24\,]$$

$$No04 = [\,N = 98,\ E = 58,\ M = 40,\ B = 37,\ X = 23,\ Y = 28,\ Z = 16\,]$$

$$No05 = [\,N = 21,\ G = 9,\ \mathrm{W} = 10,\ R = 12,\ A = 3,\ B = 4,\ C = 1,\ \mathrm{D} = 0\,]$$

$$No06 = [\,\mathrm{n}(U) = 48,\ \mathrm{n}(A' \cap B') = 12,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 14\,]$$

$$No07 = [\,N = 34,\ A = 20,\ B = 14,\ C = 27,\ \mathrm{D} = 15,\ E = 10,\ F = 8\,]$$

$$No08 = [\,A = 21,\ B = 10,\ C = 19,\ \mathrm{D} = 12,\ E = 6,\ F = 15,\ G = 5\,]$$

$$No09 = [\,N = 500,\ A = 234,\ B = 234,\ C = 206,\ AB = 98,\ BC = 98,\ AC = 68,\ P = 6\,]$$

$$No10 = [\,N = 550,\ S = 20,\ A = 310,\ B = 70,\ C = 190,\ \mathrm{D} = 190,\ E = 240\,]$$

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Set02 for No.13862

$$No01 = [\mathrm{n}(U) = 40, \mathrm{n}(A) = 19, \mathrm{n}(B) = 22, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 43 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 21 & \mathrm{n}(C) = 29 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 15 & \mathrm{n}(B \cap C) = 18 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 79, F = 35, V = 46, X = 24]$$

$$No04 = [N = 126, E = 73, M = 55, B = 62, X = 20, Y = 37, Z = 17]$$

$$No05 = [N = 40, G = 20, \mathrm{W} = 29, R = 19, A = 6, B = 9, C = 15, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 31, \mathrm{n}(A' \cap B') = 5, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 6]$$

$$No07 = [N = 52, A = 33, B = 27, C = 27, \mathrm{D} = 18, E = 16, F = 10]$$

$$No08 = [A = 25, B = 9, C = 18, \mathrm{D} = 7, E = 3, F = 19, G = 2]$$

$$No09 = [N = 400, A = 180, B = 190, C = 160, AB = 100, BC = 80, AC = 130, P = 20]$$

$$No10 = [N = 650, S = 90, A = 350, B = 180, C = 180, \mathrm{D} = 30, E = 350]$$

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Set02 for No.13943

$$No01 = [\mathrm{n}(U) = 38, \mathrm{n}(A) = 16, \mathrm{n}(B) = 19, \mathrm{n}(A \cap B) = 11]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 32 & \mathrm{n}(A) = 20 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 17 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 13 & \mathrm{n}(B \cap C) = 8 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 7 \end{bmatrix}$$

$$No03 = [N = 79, F = 37, V = 36, X = 12]$$

$$No04 = [N = 118, E = 57, M = 53, B = 69, X = 13, Y = 33, Z = 8]$$

$$No05 = [N = 39, G = 21, \mathrm{W} = 25, R = 29, A = 3, B = 6, C = 10, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 42, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 6]$$

$$No07 = [N = 53, A = 31, B = 31, C = 35, \mathrm{D} = 17, E = 19, F = 18]$$

$$No08 = [A = 21, B = 13, C = 25, \mathrm{D} = 1, E = 11, F = 22, G = 1]$$

$$No09 = [N = 700, A = 358, B = 308, C = 328, AB = 146, BC = 156, AC = 146, P = 5]$$

$$No10 = [N = 610, S = 130, A = 200, B = 90, C = 150, \mathrm{D} = 80, E = 330]$$

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Set02 for No.13968

$$No01 = [\mathrm{n}(U) = 45, \mathrm{n}(A) = 21, \mathrm{n}(B) = 27, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 16 & \mathrm{n}(B) = 14 & \mathrm{n}(C) = 21 \\ \mathrm{n}(A \cap B) = 4 & \mathrm{n}(A \cap C) = 7 & \mathrm{n}(B \cap C) = 8 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [N = 97, F = 47, V = 52, X = 26]$$

$$No04 = [N = 128, E = 53, M = 66, B = 65, X = 12, Y = 29, Z = 10]$$

$$No05 = [N = 38, G = 28, \mathrm{W} = 22, R = 20, A = 2, B = 7, C = 14, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 57, \mathrm{n}(A' \cap B') = 16, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17]$$

$$No07 = [N = 34, A = 16, B = 18, C = 16, \mathrm{D} = 6, E = 7, F = 7]$$

$$No08 = [A = 20, B = 9, C = 28, \mathrm{D} = 14, E = 16, F = 24, G = 8]$$

$$No09 = [N = 700, A = 322, B = 372, C = 317, AB = 196, BC = 206, AC = 126, P = 14]$$

$$No10 = [N = 730, S = 140, A = 320, B = 80, C = 160, \mathrm{D} = 160, E = 340]$$

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Set02 for No.13981

$$No01 = [\,\mathrm{n}(U) = 47,\ \mathrm{n}(A) = 23,\ \mathrm{n}(B) = 30,\ \mathrm{n}(A \cap B) = 15\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 26 & \mathrm{n}(B) = 18 & \mathrm{n}(C) = 23 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 15 & \mathrm{n}(B \cap C) = 8 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 5 \end{bmatrix}$$

$$No03 = [\,N = 60,\ F = 37,\ V = 23,\ X = 11\,]$$

$$No04 = [\,N = 122,\ E = 44,\ M = 51,\ B = 61,\ X = 19,\ Y = 30,\ Z = 0\,]$$

$$No05 = [\,N = 52,\ G = 33,\ \mathrm{W} = 29,\ R = 35,\ A = 8,\ B = 1,\ C = 18,\ \mathrm{D} = 10\,]$$

$$No06 = [\,\mathrm{n}(U) = 38,\ \mathrm{n}(A' \cap B') = 8,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 11\,]$$

$$No07 = [\,N = 48,\ A = 25,\ B = 26,\ C = 28,\ \mathrm{D} = 15,\ E = 11,\ F = 14\,]$$

$$No08 = [\,A = 23,\ B = 10,\ C = 18,\ \mathrm{D} = 12,\ E = 5,\ F = 21,\ G = 1\,]$$

$$No09 = [\,N = 500,\ A = 258,\ B = 208,\ C = 172,\ AB = 106,\ BC = 56,\ AC = 126,\ P = 6\,]$$

$$No10 = [\,N = 510,\ S = 20,\ A = 400,\ B = 150,\ C = 180,\ \mathrm{D} = 110,\ E = 210\,]$$

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Set02 for No.14006

$$No01 = [\,\mathrm{n}(U) = 47,\ \mathrm{n}(A) = 29,\ \mathrm{n}(B) = 20,\ \mathrm{n}(A \cap B) = 15\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 34 & \mathrm{n}(A) = 15 & \mathrm{n}(B) = 20 & \mathrm{n}(C) = 15 \\ \mathrm{n}(A \cap B) = 7 & \mathrm{n}(A \cap C) = 11 & \mathrm{n}(B \cap C) = 6 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 67,\ F = 40,\ V = 38,\ X = 22\,]$$

$$No04 = [\,N = 105,\ E = 44,\ M = 71,\ B = 61,\ X = 0,\ Y = 22,\ Z = 10\,]$$

$$No05 = [\,N = 46,\ G = 21,\ \mathrm{W} = 35,\ R = 28,\ A = 5,\ B = 10,\ C = 15,\ \mathrm{D} = 10\,]$$

$$No06 = [\,\mathrm{n}(U) = 58,\ \mathrm{n}(A' \cap B') = 15,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 16\,]$$

$$No07 = [\,N = 37,\ A = 24,\ B = 19,\ C = 23,\ \mathrm{D} = 12,\ E = 11,\ F = 15\,]$$

$$No08 = [\,A = 28,\ B = 18,\ C = 29,\ \mathrm{D} = 10,\ E = 12,\ F = 19,\ G = 9\,]$$

$$No09 = [\,N = 600,\ A = 345,\ B = 275,\ C = 435,\ AB = 155,\ BC = 205,\ AC = 245,\ P = 20\,]$$

$$No10 = [\,N = 570,\ S = 60,\ A = 310,\ B = 60,\ C = 160,\ \mathrm{D} = 110,\ E = 260\,]$$

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Set02 for No.14020

$$No01 = [\,\mathrm{n}(U) = 36,\ \mathrm{n}(A) = 19,\ \mathrm{n}(B) = 23,\ \mathrm{n}(A \cap B) = 12\,]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 27 & \mathrm{n}(A) = 12 & \mathrm{n}(B) = 14 & \mathrm{n}(C) = 17 \\ \mathrm{n}(A \cap B) = 6 & \mathrm{n}(A \cap C) = 7 & \mathrm{n}(B \cap C) = 8 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [\,N = 77,\ F = 40,\ V = 36,\ X = 22\,]$$

$$No04 = [\,N = 117,\ E = 68,\ M = 63,\ B = 60,\ X = 21,\ Y = 21,\ Z = 16\,]$$

$$No05 = [\,N = 37,\ G = 13,\ \mathrm{W} = 20,\ R = 18,\ A = 5,\ B = 10,\ C = 1,\ \mathrm{D} = 0\,]$$

$$No06 = [\,\mathrm{n}(U) = 40,\ \mathrm{n}(A' \cap B') = 6,\ (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 10\,]$$

$$No07 = [\,N = 54,\ A = 36,\ B = 30,\ C = 33,\ \mathrm{D} = 18,\ E = 18,\ F = 18\,]$$

$$No08 = [\,A = 41,\ B = 19,\ C = 30,\ \mathrm{D} = 22,\ E = 13,\ F = 26,\ G = 10\,]$$

$$No09 = [\,N = 500,\ A = 210,\ B = 210,\ C = 160,\ AB = 60,\ BC = 80,\ AC = 60,\ P = 6\,]$$

$$No10 = [\,N = 710,\ S = 60,\ A = 330,\ B = 130,\ C = 80,\ \mathrm{D} = 180,\ E = 330\,]$$

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Set02 for No.14022

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 19, \mathrm{n}(B) = 24, \mathrm{n}(A \cap B) = 11]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 36 & \mathrm{n}(A) = 19 & \mathrm{n}(B) = 24 & \mathrm{n}(C) = 12 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 2 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 1 \end{bmatrix}$$

$$No03 = [N = 78, F = 41, V = 28, X = 14]$$

$$No04 = [N = 120, E = 46, M = 69, B = 72, X = 0, Y = 40, Z = 15]$$

$$No05 = [N = 39, G = 29, \mathrm{W} = 22, R = 23, A = 3, B = 4, C = 15, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 46, \mathrm{n}(A' \cap B') = 7, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17]$$

$$No07 = [N = 48, A = 25, B = 34, C = 27, \mathrm{D} = 14, E = 20, F = 14]$$

$$No08 = [A = 19, B = 12, C = 29, \mathrm{D} = 7, E = 9, F = 26, G = 2]$$

$$No09 = [N = 400, A = 150, B = 150, C = 190, AB = 32, BC = 72, AC = 62, P = 7]$$

$$No10 = [N = 690, S = 160, A = 340, B = 120, C = 150, \mathrm{D} = 190, E = 270]$$

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