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Set02 for No.9844

$$No01 = [\mathrm{n}(U) = 38, \mathrm{n}(A) = 19, \mathrm{n}(B) = 18, \mathrm{n}(A \cap B) = 12]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 31 & \mathrm{n}(A) = 21 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 18 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 13 & \mathrm{n}(B \cap C) = 5 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 69, F = 33, V = 35, X = 22]$$

$$No04 = [N = 108, E = 66, M = 68, B = 50, X = 21, Y = 12, Z = 17]$$

$$No05 = [N = 43, G = 25, \mathrm{W} = 27, R = 31, A = 6, B = 5, C = 15, \mathrm{D} = 10]$$

$$No06 = [\mathrm{n}(U) = 51, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 11]$$

$$No07 = [N = 31, A = 10, B = 20, C = 25, \mathrm{D} = 9, E = 5, F = 14]$$

$$No08 = [A = 21, B = 12, C = 20, \mathrm{D} = 7, E = 2, F = 8, G = 2]$$

$$No09 = [N = 600, A = 313, B = 303, C = 337, AB = 143, BC = 163, AC = 233, P = 18]$$

$$No10 = [N = 670, S = 120, A = 290, B = 130, C = 270, \mathrm{D} = 150, E = 260]$$

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Set02 for No.9872

$$No01 = [\mathrm{n}(U) = 41, \mathrm{n}(A) = 27, \mathrm{n}(B) = 21, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 33 & \mathrm{n}(A) = 13 & \mathrm{n}(B) = 16 & \mathrm{n}(C) = 19 \\ \mathrm{n}(A \cap B) = 4 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 6 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 82, F = 47, V = 41, X = 25]$$

$$No04 = [N = 123, E = 71, M = 66, B = 61, X = 17, Y = 31, Z = 18]$$

$$No05 = [N = 29, G = 12, \mathrm{W} = 16, R = 19, A = 10, B = 3, C = 9, \mathrm{D} = 3]$$

$$No06 = [\mathrm{n}(U) = 36, \mathrm{n}(A' \cap B') = 16, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 34, A = 25, B = 18, C = 20, \mathrm{D} = 11, E = 16, F = 10]$$

$$No08 = [A = 16, B = 6, C = 27, \mathrm{D} = 5, E = 11, F = 25, G = 2]$$

$$No09 = [N = 600, A = 395, B = 235, C = 325, AB = 145, BC = 115, AC = 185, P = 10]$$

$$No10 = [N = 880, S = 100, A = 380, B = 190, C = 270, \mathrm{D} = 240, E = 350]$$

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Set02 for No.9873

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 22, \mathrm{n}(B) = 23, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 44 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 22 \\ \mathrm{n}(A \cap B) = 4 & \mathrm{n}(A \cap C) = 8 & \mathrm{n}(B \cap C) = 10 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 2 \end{bmatrix}$$

$$No03 = [N = 91, F = 38, V = 43, X = 17]$$

$$No04 = [N = 104, E = 46, M = 56, B = 42, X = 12, Y = 13, Z = 20]$$

$$No05 = [N = 35, G = 22, \mathrm{W} = 16, R = 25, A = 5, B = 1, C = 8, \mathrm{D} = 8]$$

$$No06 = [\mathrm{n}(U) = 31, \mathrm{n}(A' \cap B') = 11, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 6]$$

$$No07 = [N = 42, A = 23, B = 27, C = 29, \mathrm{D} = 12, E = 16, F = 17]$$

$$No08 = [A = 26, B = 12, C = 28, \mathrm{D} = 17, E = 15, F = 24, G = 10]$$

$$No09 = [N = 500, A = 309, B = 249, C = 381, AB = 183, BC = 153, AC = 233, P = 22]$$

$$No10 = [N = 750, S = 100, A = 380, B = 170, C = 120, \mathrm{D} = 130, E = 280]$$

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Set02 for No.9884

$$No01 = [\mathrm{n}(U) = 32, \mathrm{n}(A) = 18, \mathrm{n}(B) = 19, \mathrm{n}(A \cap B) = 12]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 47 & \mathrm{n}(A) = 22 & \mathrm{n}(B) = 23 & \mathrm{n}(C) = 25 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 13 & \mathrm{n}(B \cap C) = 17 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 69, F = 32, V = 30, X = 17]$$

$$No04 = [N = 98, E = 31, M = 36, B = 50, X = 10, Y = 30, Z = 0]$$

$$No05 = [N = 51, G = 26, \mathrm{W} = 28, R = 22, A = 9, B = 10, C = 12, \mathrm{D} = 3]$$

$$No06 = [\mathrm{n}(U) = 60, \mathrm{n}(A' \cap B') = 12, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17]$$

$$No07 = [N = 46, A = 24, B = 25, C = 29, \mathrm{D} = 11, E = 11, F = 12]$$

$$No08 = [A = 25, B = 12, C = 26, \mathrm{D} = 16, E = 9, F = 19, G = 7]$$

$$No09 = [N = 600, A = 301, B = 251, C = 205, AB = 141, BC = 51, AC = 121, P = 6]$$

$$No10 = [N = 730, S = 140, A = 280, B = 110, C = 210, \mathrm{D} = 60, E = 370]$$

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Set02 for No.9885

$$No01 = [\mathrm{n}(U) = 49, \mathrm{n}(A) = 21, \mathrm{n}(B) = 22, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 36 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 20 & \mathrm{n}(C) = 16 \\ \mathrm{n}(A \cap B) = 8 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 10 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 7 \end{bmatrix}$$

$$No03 = [N = 66, F = 31, V = 38, X = 18]$$

$$No04 = [N = 109, E = 51, M = 64, B = 46, X = 18, Y = 13, Z = 11]$$

$$No05 = [N = 25, G = 12, \mathrm{W} = 14, R = 12, A = 6, B = 5, C = 7, \mathrm{D} = 1]$$

$$No06 = [\mathrm{n}(U) = 54, \mathrm{n}(A' \cap B') = 8, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17]$$

$$No07 = [N = 38, A = 18, B = 33, C = 17, \mathrm{D} = 6, E = 16, F = 14]$$

$$No08 = [A = 25, B = 12, C = 29, \mathrm{D} = 20, E = 22, F = 39, G = 10]$$

$$No09 = [N = 500, A = 208, B = 248, C = 322, AB = 136, BC = 206, AC = 146, P = 24]$$

$$No10 = [N = 630, S = 160, A = 180, B = 90, C = 150, \mathrm{D} = 80, E = 230]$$

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Set02 for No.9895

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 16, \mathrm{n}(B) = 22, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 47 & \mathrm{n}(A) = 33 & \mathrm{n}(B) = 23 & \mathrm{n}(C) = 30 \\ \mathrm{n}(A \cap B) = 17 & \mathrm{n}(A \cap C) = 19 & \mathrm{n}(B \cap C) = 14 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 9 \end{bmatrix}$$

$$No03 = [N = 67, F = 34, V = 26, X = 12]$$

$$No04 = [N = 119, E = 58, M = 45, B = 74, X = 21, Y = 41, Z = 0]$$

$$No05 = [N = 40, G = 28, \mathrm{W} = 23, R = 26, A = 3, B = 0, C = 14, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 41, \mathrm{n}(A' \cap B') = 15, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 9]$$

$$No07 = [N = 45, A = 27, B = 24, C = 24, \mathrm{D} = 14, E = 13, F = 7]$$

$$No08 = [A = 29, B = 8, C = 19, \mathrm{D} = 20, E = 18, F = 35, G = 8]$$

$$No09 = [N = 500, A = 288, B = 248, C = 182, AB = 136, BC = 66, AC = 156, P = 12]$$

$$No10 = [N = 830, S = 70, A = 410, B = 170, C = 270, \mathrm{D} = 290, E = 380]$$

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Set02 for No.9898

$$No01 = [\mathrm{n}(U) = 50, \mathrm{n}(A) = 20, \mathrm{n}(B) = 28, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 27 & \mathrm{n}(B) = 17 & \mathrm{n}(C) = 21 \\ \mathrm{n}(A \cap B) = 16 & \mathrm{n}(A \cap C) = 14 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 76, F = 39, V = 45, X = 24]$$

$$No04 = [N = 89, E = 40, M = 45, B = 43, X = 21, Y = 14, Z = 7]$$

$$No05 = [N = 38, G = 28, \mathrm{W} = 25, R = 18, A = 3, B = 4, C = 18, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 35, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 5]$$

$$No07 = [N = 36, A = 16, B = 23, C = 19, \mathrm{D} = 9, E = 4, F = 13]$$

$$No08 = [A = 23, B = 17, C = 37, \mathrm{D} = 10, E = 13, F = 22, G = 5]$$

$$No09 = [N = 500, A = 224, B = 294, C = 316, AB = 98, BC = 188, AC = 138, P = 12]$$

$$No10 = [N = 880, S = 110, A = 440, B = 180, C = 290, \mathrm{D} = 270, E = 410]$$

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Set02 for No.9899

$$No01 = [\mathrm{n}(U) = 41, \mathrm{n}(A) = 21, \mathrm{n}(B) = 22, \mathrm{n}(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 39 & \mathrm{n}(A) = 16 & \mathrm{n}(B) = 24 & \mathrm{n}(C) = 21 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 8 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 80, F = 34, V = 43, X = 23]$$

$$No04 = [N = 105, E = 55, M = 53, B = 65, X = 19, Y = 25, Z = 0]$$

$$No05 = [N = 41, G = 25, \mathrm{W} = 20, R = 25, A = 10, B = 0, C = 14, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 44, \mathrm{n}(A' \cap B') = 6, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 14]$$

$$No07 = [N = 31, A = 18, B = 15, C = 19, \mathrm{D} = 9, E = 7, F = 10]$$

$$No08 = [A = 32, B = 22, C = 32, \mathrm{D} = 13, E = 11, F = 21, G = 10]$$

$$No09 = [N = 700, A = 379, B = 379, C = 411, AB = 239, BC = 159, AC = 239, P = 17]$$

$$No10 = [N = 660, S = 70, A = 450, B = 170, C = 280, \mathrm{D} = 320, E = 150]$$

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Set02 for No.9920

$$No01 = [\mathrm{n}(U) = 44, \mathrm{n}(A) = 26, \mathrm{n}(B) = 22, \mathrm{n}(A \cap B) = 14]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 49 & \mathrm{n}(A) = 20 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 24 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 11 & \mathrm{n}(B \cap C) = 12 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 9 \end{bmatrix}$$

$$No03 = [N = 92, F = 49, V = 44, X = 24]$$

$$No04 = [N = 98, E = 56, M = 60, B = 35, X = 18, Y = 8, Z = 23]$$

$$No05 = [N = 43, G = 19, \mathrm{W} = 24, R = 25, A = 10, B = 5, C = 10, \mathrm{D} = 2]$$

$$No06 = [\mathrm{n}(U) = 39, \mathrm{n}(A' \cap B') = 12, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 11]$$

$$No07 = [N = 40, A = 23, B = 17, C = 27, \mathrm{D} = 14, E = 10, F = 9]$$

$$No08 = [A = 18, B = 7, C = 12, \mathrm{D} = 16, E = 8, F = 20, G = 5]$$

$$No09 = [N = 500, A = 280, B = 310, C = 210, AB = 180, BC = 160, AC = 100, P = 20]$$

$$No10 = [N = 640, S = 100, A = 270, B = 100, C = 220, \mathrm{D} = 90, E = 370]$$

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Set02 for No.10000

$$No01 = [\text{n}(U) = 46, \text{n}(A) = 26, \text{n}(B) = 18, \text{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 47 & \text{n}(A) = 27 & \text{n}(B) = 27 & \text{n}(C) = 18 \\ \text{n}(A \cap B) = 16 & \text{n}(A \cap C) = 11 & \text{n}(B \cap C) = 11 & \text{n}(\text{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 68, F = 40, V = 28, X = 13]$$

$$No04 = [N = 103, E = 57, M = 38, B = 48, X = 16, Y = 31, Z = 21]$$

$$No05 = [N = 37, G = 14, \text{W} = 18, R = 22, A = 8, B = 8, C = 3, \text{D} = 2]$$

$$No06 = [\text{n}(U) = 44, \text{n}(A' \cap B') = 11, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 11]$$

$$No07 = [N = 50, A = 30, B = 27, C = 30, \text{D} = 16, E = 15, F = 12]$$

$$No08 = [A = 16, B = 9, C = 16, \text{D} = 11, E = 11, F = 24, G = 7]$$

$$No09 = [N = 400, A = 188, B = 208, C = 262, AB = 108, BC = 188, AC = 118, P = 27]$$

$$No10 = [N = 750, S = 70, A = 370, B = 190, C = 100, \text{D} = 240, E = 190]$$

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Set02 for No.10017

$$No01 = [\text{n}(U) = 32, \text{n}(A) = 15, \text{n}(B) = 19, \text{n}(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 50 & \text{n}(A) = 19 & \text{n}(B) = 22 & \text{n}(C) = 26 \\ \text{n}(A \cap B) = 10 & \text{n}(A \cap C) = 8 & \text{n}(B \cap C) = 12 & \text{n}(\text{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [N = 85, F = 44, V = 36, X = 21]$$

$$No04 = [N = 112, E = 62, M = 64, B = 55, X = 11, Y = 27, Z = 19]$$

$$No05 = [N = 41, G = 25, \text{W} = 33, R = 17, A = 1, B = 10, C = 18, \text{D} = 8]$$

$$No06 = [\text{n}(U) = 51, \text{n}(A' \cap B') = 14, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 13]$$

$$No07 = [N = 35, A = 19, B = 27, C = 20, \text{D} = 12, E = 13, F = 15]$$

$$No08 = [A = 21, B = 6, C = 17, \text{D} = 10, E = 13, F = 30, G = 2]$$

$$No09 = [N = 400, A = 114, B = 194, C = 176, AB = 70, BC = 50, AC = 40, P = 2]$$

$$No10 = [N = 640, S = 120, A = 400, B = 120, C = 180, \text{D} = 140, E = 240]$$

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Set02 for No.10057

$$No01 = [\text{n}(U) = 44, \text{n}(A) = 25, \text{n}(B) = 22, \text{n}(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 49 & \text{n}(A) = 15 & \text{n}(B) = 23 & \text{n}(C) = 28 \\ \text{n}(A \cap B) = 7 & \text{n}(A \cap C) = 10 & \text{n}(B \cap C) = 12 & \text{n}(\text{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [N = 66, F = 37, V = 38, X = 20]$$

$$No04 = [N = 94, E = 47, M = 55, B = 47, X = 7, Y = 17, Z = 13]$$

$$No05 = [N = 48, G = 29, \text{W} = 29, R = 22, A = 5, B = 10, C = 15, \text{D} = 8]$$

$$No06 = [\text{n}(U) = 44, \text{n}(A' \cap B') = 10, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 11]$$

$$No07 = [N = 37, A = 21, B = 15, C = 21, \text{D} = 7, E = 8, F = 9]$$

$$No08 = [A = 23, B = 9, C = 25, \text{D} = 8, E = 11, F = 19, G = 4]$$

$$No09 = [N = 500, A = 363, B = 293, C = 307, AB = 201, BC = 161, AC = 221, P = 22]$$

$$No10 = [N = 600, S = 20, A = 330, B = 50, C = 140, \text{D} = 180, E = 290]$$

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Set02 for No.10061

$$No01 = [\mathrm{n}(U) = 39, \mathrm{n}(A) = 23, \mathrm{n}(B) = 15, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 45 & \mathrm{n}(A) = 26 & \mathrm{n}(B) = 28 & \mathrm{n}(C) = 30 \\ \mathrm{n}(A \cap B) = 18 & \mathrm{n}(A \cap C) = 13 & \mathrm{n}(B \cap C) = 19 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 9 \end{bmatrix}$$

$$No03 = [N = 82, F = 39, V = 47, X = 21]$$

$$No04 = [N = 144, E = 84, M = 68, B = 72, X = 23, Y = 35, Z = 23]$$

$$No05 = [N = 33, G = 22, \mathrm{W} = 21, R = 14, A = 5, B = 6, C = 15, \mathrm{D} = 5]$$

$$No06 = [\mathrm{n}(U) = 29, \mathrm{n}(A' \cap B') = 7, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 39, A = 19, B = 20, C = 22, \mathrm{D} = 3, E = 9, F = 10]$$

$$No08 = [A = 16, B = 7, C = 21, \mathrm{D} = 10, E = 12, F = 19, G = 7]$$

$$No09 = [N = 600, A = 215, B = 335, C = 317, AB = 155, BC = 175, AC = 105, P = 10]$$

$$No10 = [N = 700, S = 150, A = 260, B = 100, C = 140, \mathrm{D} = 40, E = 320]$$

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Set02 for No.10071

$$No01 = [\mathrm{n}(U) = 54, \mathrm{n}(A) = 24, \mathrm{n}(B) = 26, \mathrm{n}(A \cap B) = 11]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 39 & \mathrm{n}(A) = 15 & \mathrm{n}(B) = 21 & \mathrm{n}(C) = 24 \\ \mathrm{n}(A \cap B) = 9 & \mathrm{n}(A \cap C) = 9 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 65, F = 37, V = 36, X = 24]$$

$$No04 = [N = 113, E = 51, M = 67, B = 60, X = 7, Y = 25, Z = 16]$$

$$No05 = [N = 42, G = 25, \mathrm{W} = 29, R = 20, A = 3, B = 5, C = 15, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 46, \mathrm{n}(A' \cap B') = 12, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 13]$$

$$No07 = [N = 42, A = 21, B = 20, C = 26, \mathrm{D} = 12, E = 6, F = 13]$$

$$No08 = [A = 26, B = 13, C = 23, \mathrm{D} = 21, E = 19, F = 38, G = 11]$$

$$No09 = [N = 500, A = 223, B = 183, C = 297, AB = 21, BC = 91, AC = 131, P = 2]$$

$$No10 = [N = 720, S = 30, A = 390, B = 200, C = 250, \mathrm{D} = 140, E = 350]$$

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Set02 for No.10088

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 23, \mathrm{n}(B) = 21, \mathrm{n}(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 37 & \mathrm{n}(A) = 18 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 19 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 9 & \mathrm{n}(B \cap C) = 10 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 2 \end{bmatrix}$$

$$No03 = [N = 63, F = 28, V = 40, X = 17]$$

$$No04 = [N = 136, E = 75, M = 65, B = 78, X = 13, Y = 40, Z = 17]$$

$$No05 = [N = 38, G = 17, \mathrm{W} = 25, R = 24, A = 8, B = 9, C = 12, \mathrm{D} = 9]$$

$$No06 = [\mathrm{n}(U) = 30, \mathrm{n}(A' \cap B') = 8, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 6]$$

$$No07 = [N = 34, A = 23, B = 12, C = 17, \mathrm{D} = 11, E = 5, F = 5]$$

$$No08 = [A = 41, B = 23, C = 44, \mathrm{D} = 20, E = 24, F = 34, G = 12]$$

$$No09 = [N = 500, A = 260, B = 240, C = 230, AB = 120, BC = 140, AC = 60, P = 6]$$

$$No10 = [N = 560, S = 110, A = 220, B = 170, C = 190, \mathrm{D} = 180, E = 170]$$

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Set02 for No.10385

$$No01 = [\mathrm{n}(U) = 49, \mathrm{n}(A) = 27, \mathrm{n}(B) = 24, \mathrm{n}(A \cap B) = 15]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 52 & \mathrm{n}(A) = 27 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 30 \\ \mathrm{n}(A \cap B) = 15 & \mathrm{n}(A \cap C) = 16 & \mathrm{n}(B \cap C) = 13 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 90, F = 41, V = 42, X = 20]$$

$$No04 = [N = 99, E = 54, M = 64, B = 45, X = 8, Y = 18, Z = 16]$$

$$No05 = [N = 43, G = 30, \mathrm{W} = 24, R = 23, A = 5, B = 1, C = 16, \mathrm{D} = 7]$$

$$No06 = [\mathrm{n}(U) = 44, \mathrm{n}(A' \cap B') = 5, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 16]$$

$$No07 = [N = 35, A = 26, B = 22, C = 17, \mathrm{D} = 12, E = 13, F = 11]$$

$$No08 = [A = 21, B = 14, C = 22, \mathrm{D} = 13, E = 17, F = 30, G = 11]$$

$$No09 = [N = 400, A = 298, B = 248, C = 182, AB = 188, BC = 108, AC = 148, P = 22]$$

$$No10 = [N = 710, S = 10, A = 300, B = 150, C = 110, \mathrm{D} = 200, E = 270]$$

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Set02 for No.10387

$$No01 = [\mathrm{n}(U) = 40, \mathrm{n}(A) = 21, \mathrm{n}(B) = 27, \mathrm{n}(A \cap B) = 15]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 49 & \mathrm{n}(A) = 30 & \mathrm{n}(B) = 28 & \mathrm{n}(C) = 18 \\ \mathrm{n}(A \cap B) = 13 & \mathrm{n}(A \cap C) = 11 & \mathrm{n}(B \cap C) = 9 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 71, F = 32, V = 27, X = 11]$$

$$No04 = [N = 116, E = 52, M = 70, B = 44, X = 17, Y = 12, Z = 21]$$

$$No05 = [N = 40, G = 26, \mathrm{W} = 17, R = 23, A = 8, B = 1, C = 11, \mathrm{D} = 5]$$

$$No06 = [\mathrm{n}(U) = 35, \mathrm{n}(A' \cap B') = 15, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 46, A = 27, B = 33, C = 28, \mathrm{D} = 16, E = 16, F = 16]$$

$$No08 = [A = 32, B = 14, C = 27, \mathrm{D} = 13, E = 13, F = 33, G = 4]$$

$$No09 = [N = 700, A = 278, B = 348, C = 320, AB = 136, BC = 146, AC = 76, P = 5]$$

$$No10 = [N = 860, S = 150, A = 520, B = 320, C = 220, \mathrm{D} = 300, E = 110]$$

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Set02 for No.10914

$$No01 = [\mathrm{n}(U) = 47, \mathrm{n}(A) = 22, \mathrm{n}(B) = 23, \mathrm{n}(A \cap B) = 11]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 40 & \mathrm{n}(A) = 19 & \mathrm{n}(B) = 9 & \mathrm{n}(C) = 19 \\ \mathrm{n}(A \cap B) = 1 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 5 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [N = 76, F = 39, V = 42, X = 16]$$

$$No04 = [N = 139, E = 71, M = 75, B = 69, X = 10, Y = 33, Z = 21]$$

$$No05 = [N = 34, G = 21, \mathrm{W} = 22, R = 11, A = 1, B = 10, C = 10, \mathrm{D} = 2]$$

$$No06 = [\mathrm{n}(U) = 58, \mathrm{n}(A' \cap B') = 7, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 17]$$

$$No07 = [N = 32, A = 21, B = 19, C = 23, \mathrm{D} = 14, E = 14, F = 11]$$

$$No08 = [A = 30, B = 16, C = 37, \mathrm{D} = 19, E = 23, F = 36, G = 11]$$

$$No09 = [N = 700, A = 391, B = 401, C = 304, AB = 203, BC = 203, AC = 193, P = 17]$$

$$No10 = [N = 800, S = 130, A = 380, B = 200, C = 130, \mathrm{D} = 190, E = 330]$$

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Set02 for No.10945

$$No01 = [\mathrm{n}(U) = 42, \mathrm{n}(A) = 14, \mathrm{n}(B) = 21, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 44 & \mathrm{n}(A) = 24 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 27 \\ \mathrm{n}(A \cap B) = 10 & \mathrm{n}(A \cap C) = 16 & \mathrm{n}(B \cap C) = 13 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 83, F = 39, V = 48, X = 26]$$

$$No04 = [N = 139, E = 89, M = 66, B = 52, X = 23, Y = 32, Z = 23]$$

$$No05 = [N = 33, G = 21, \mathrm{W} = 21, R = 16, A = 0, B = 10, C = 9, \mathrm{D} = 4]$$

$$No06 = [\mathrm{n}(U) = 56, \mathrm{n}(A' \cap B') = 9, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 16]$$

$$No07 = [N = 39, A = 18, B = 24, C = 18, \mathrm{D} = 7, E = 9, F = 10]$$

$$No08 = [A = 22, B = 10, C = 19, \mathrm{D} = 9, E = 16, F = 28, G = 9]$$

$$No09 = [N = 600, A = 282, B = 312, C = 184, AB = 138, BC = 128, AC = 68, P = 6]$$

$$No10 = [N = 470, S = 70, A = 120, B = 50, C = 80, \mathrm{D} = 30, E = 230]$$

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Set02 for No.10954

$$No01 = [\mathrm{n}(U) = 35, \mathrm{n}(A) = 18, \mathrm{n}(B) = 17, \mathrm{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 34 & \mathrm{n}(A) = 8 & \mathrm{n}(B) = 13 & \mathrm{n}(C) = 15 \\ \mathrm{n}(A \cap B) = 4 & \mathrm{n}(A \cap C) = 3 & \mathrm{n}(B \cap C) = 6 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 2 \end{bmatrix}$$

$$No03 = [N = 63, F = 35, V = 34, X = 20]$$

$$No04 = [N = 124, E = 64, M = 60, B = 54, X = 22, Y = 33, Z = 17]$$

$$No05 = [N = 31, G = 24, \mathrm{W} = 15, R = 14, A = 0, B = 2, C = 8, \mathrm{D} = 2]$$

$$No06 = [\mathrm{n}(U) = 39, \mathrm{n}(A' \cap B') = 14, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 7]$$

$$No07 = [N = 34, A = 20, B = 21, C = 23, \mathrm{D} = 17, E = 9, F = 13]$$

$$No08 = [A = 25, B = 11, C = 31, \mathrm{D} = 9, E = 9, F = 21, G = 1]$$

$$No09 = [N = 700, A = 426, B = 356, C = 367, AB = 228, BC = 148, AC = 248, P = 17]$$

$$No10 = [N = 500, S = 20, A = 200, B = 80, C = 130, \mathrm{D} = 50, E = 230]$$

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Set02 for No.10966

$$No01 = [\mathrm{n}(U) = 47, \mathrm{n}(A) = 19, \mathrm{n}(B) = 26, \mathrm{n}(A \cap B) = 13]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 45 & \mathrm{n}(A) = 30 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 30 \\ \mathrm{n}(A \cap B) = 12 & \mathrm{n}(A \cap C) = 19 & \mathrm{n}(B \cap C) = 19 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 65, F = 32, V = 34, X = 16]$$

$$No04 = [N = 106, E = 59, M = 51, B = 51, X = 19, Y = 27, Z = 18]$$

$$No05 = [N = 22, G = 11, \mathrm{W} = 13, R = 9, A = 5, B = 3, C = 7, \mathrm{D} = 1]$$

$$No06 = [\mathrm{n}(U) = 40, \mathrm{n}(A' \cap B') = 17, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 5]$$

$$No07 = [N = 24, A = 12, B = 12, C = 17, \mathrm{D} = 7, E = 7, F = 6]$$

$$No08 = [A = 27, B = 12, C = 36, \mathrm{D} = 7, E = 15, F = 23, G = 3]$$

$$No09 = [N = 700, A = 389, B = 369, C = 382, AB = 219, BC = 189, AC = 179, P = 17]$$

$$No10 = [N = 900, S = 90, A = 420, B = 230, C = 250, \mathrm{D} = 220, E = 380]$$

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Set02 for No.11154

$$No01 = [\text{n}(U) = 50, \text{n}(A) = 26, \text{n}(B) = 29, \text{n}(A \cap B) = 15]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 43 & \text{n}(A) = 28 & \text{n}(B) = 23 & \text{n}(C) = 24 \\ \text{n}(A \cap B) = 14 & \text{n}(A \cap C) = 18 & \text{n}(B \cap C) = 14 & \text{n}(\text{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 64, F = 34, V = 30, X = 17]$$

$$No04 = [N = 98, E = 38, M = 58, B = 35, X = 14, Y = 11, Z = 17]$$

$$No05 = [N = 40, G = 26, \text{W} = 20, R = 18, A = 2, B = 7, C = 8, \text{D} = 3]$$

$$No06 = [\text{n}(U) = 35, \text{n}(A' \cap B') = 7, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 6]$$

$$No07 = [N = 47, A = 26, B = 25, C = 28, \text{D} = 16, E = 10, F = 15]$$

$$No08 = [A = 22, B = 8, C = 24, \text{D} = 17, E = 18, F = 34, G = 7]$$

$$No09 = [N = 600, A = 268, B = 128, C = 268, AB = 30, BC = 30, AC = 130, P = 1]$$

$$No10 = [N = 610, S = 10, A = 360, B = 230, C = 200, \text{D} = 170, E = 180]$$

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Set02 for No.11191

$$No01 = [\text{n}(U) = 42, \text{n}(A) = 20, \text{n}(B) = 27, \text{n}(A \cap B) = 15]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 34 & \text{n}(A) = 24 & \text{n}(B) = 20 & \text{n}(C) = 23 \\ \text{n}(A \cap B) = 13 & \text{n}(A \cap C) = 15 & \text{n}(B \cap C) = 15 & \text{n}(\text{intersect}(A, B, C)) = 9 \end{bmatrix}$$

$$No03 = [N = 58, F = 30, V = 24, X = 12]$$

$$No04 = [N = 93, E = 58, M = 36, B = 44, X = 13, Y = 27, Z = 11]$$

$$No05 = [N = 44, G = 23, \text{W} = 29, R = 31, A = 3, B = 9, C = 11, \text{D} = 9]$$

$$No06 = [\text{n}(U) = 43, \text{n}(A' \cap B') = 17, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 5]$$

$$No07 = [N = 42, A = 25, B = 26, C = 18, \text{D} = 5, E = 14, F = 12]$$

$$No08 = [A = 24, B = 10, C = 24, \text{D} = 17, E = 19, F = 33, G = 9]$$

$$No09 = [N = 500, A = 250, B = 140, C = 210, AB = 60, BC = 20, AC = 100, P = 4]$$

$$No10 = [N = 840, S = 110, A = 460, B = 280, C = 190, \text{D} = 270, E = 180]$$

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Set02 for No.11309

$$No01 = [\text{n}(U) = 43, \text{n}(A) = 20, \text{n}(B) = 23, \text{n}(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} \text{n}(U) = 55 & \text{n}(A) = 33 & \text{n}(B) = 29 & \text{n}(C) = 35 \\ \text{n}(A \cap B) = 17 & \text{n}(A \cap C) = 15 & \text{n}(B \cap C) = 18 & \text{n}(\text{intersect}(A, B, C)) = 8 \end{bmatrix}$$

$$No03 = [N = 85, F = 41, V = 36, X = 18]$$

$$No04 = [N = 123, E = 57, M = 68, B = 51, X = 17, Y = 20, Z = 19]$$

$$No05 = [N = 32, G = 19, \text{W} = 15, R = 11, A = 4, B = 6, C = 6, \text{D} = 1]$$

$$No06 = [\text{n}(U) = 65, \text{n}(A' \cap B') = 15, (\text{n}(B \cap A') = \text{n}(A \cap B')) = 17]$$

$$No07 = [N = 36, A = 22, B = 15, C = 20, \text{D} = 7, E = 9, F = 5]$$

$$No08 = [A = 26, B = 12, C = 27, \text{D} = 9, E = 19, F = 24, G = 7]$$

$$No09 = [N = 600, A = 299, B = 279, C = 353, AB = 123, BC = 203, AC = 203, P = 20]$$

$$No10 = [N = 740, S = 90, A = 330, B = 150, C = 170, \text{D} = 190, E = 320]$$

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Set02 for No.12037

$$No01 = [n(U) = 32, n(A) = 14, n(B) = 16, n(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} n(U) = 54 & n(A) = 29 & n(B) = 27 & n(C) = 18 \\ n(A \cap B) = 13 & n(A \cap C) = 9 & n(B \cap C) = 10 & n(\text{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 78, F = 31, V = 39, X = 16]$$

$$No04 = [N = 120, E = 66, M = 75, B = 50, X = 18, Y = 13, Z = 21]$$

$$No05 = [N = 30, G = 12, W = 27, R = 13, A = 1, B = 8, C = 10, D = 3]$$

$$No06 = [n(U) = 32, n(A' \cap B') = 6, (n(B \cap A') = n(A \cap B')) = 8]$$

$$No07 = [N = 27, A = 14, B = 16, C = 17, D = 8, E = 9, F = 11]$$

$$No08 = [A = 34, B = 12, C = 25, D = 16, E = 13, F = 33, G = 6]$$

$$No09 = [N = 500, A = 283, B = 323, C = 287, AB = 121, BC = 181, AC = 161, P = 12]$$

$$No10 = [N = 910, S = 120, A = 470, B = 310, C = 240, D = 220, E = 340]$$

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Set02 for No.12454

$$No01 = [n(U) = 40, n(A) = 13, n(B) = 19, n(A \cap B) = 6]$$

$$No02 = \begin{bmatrix} n(U) = 43 & n(A) = 23 & n(B) = 11 & n(C) = 20 \\ n(A \cap B) = 6 & n(A \cap C) = 10 & n(B \cap C) = 7 & n(\text{intersect}(A, B, C)) = 2 \end{bmatrix}$$

$$No03 = [N = 85, F = 52, V = 40, X = 26]$$

$$No04 = [N = 123, E = 60, M = 56, B = 59, X = 19, Y = 29, Z = 16]$$

$$No05 = [N = 36, G = 24, W = 18, R = 16, A = 8, B = 4, C = 14, D = 4]$$

$$No06 = [n(U) = 52, n(A' \cap B') = 11, (n(B \cap A') = n(A \cap B')) = 17]$$

$$No07 = [N = 36, A = 18, B = 17, C = 14, D = 5, E = 6, F = 3]$$

$$No08 = [A = 17, B = 4, C = 19, D = 11, E = 9, F = 23, G = 3]$$

$$No09 = [N = 600, A = 195, B = 265, C = 347, AB = 85, BC = 175, AC = 115, P = 10]$$

$$No10 = [N = 600, S = 50, A = 290, B = 170, C = 220, D = 100, E = 260]$$

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Set02 for No.12483

$$No01 = [n(U) = 40, n(A) = 25, n(B) = 24, n(A \cap B) = 14]$$

$$No02 = \begin{bmatrix} n(U) = 41 & n(A) = 16 & n(B) = 22 & n(C) = 24 \\ n(A \cap B) = 7 & n(A \cap C) = 7 & n(B \cap C) = 8 & n(\text{intersect}(A, B, C)) = 0 \end{bmatrix}$$

$$No03 = [N = 76, F = 42, V = 39, X = 21]$$

$$No04 = [N = 117, E = 61, M = 58, B = 61, X = 17, Y = 32, Z = 15]$$

$$No05 = [N = 41, G = 23, W = 21, R = 25, A = 8, B = 6, C = 11, D = 4]$$

$$No06 = [n(U) = 61, n(A' \cap B') = 13, (n(B \cap A') = n(A \cap B')) = 16]$$

$$No07 = [N = 32, A = 18, B = 20, C = 28, D = 15, E = 9, F = 19]$$

$$No08 = [A = 13, B = 9, C = 26, D = 1, E = 13, F = 18, G = 1]$$

$$No09 = [N = 500, A = 253, B = 313, C = 227, AB = 161, BC = 151, AC = 121, P = 22]$$

$$No10 = [N = 680, S = 10, A = 370, B = 230, C = 170, D = 190, E = 320]$$

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Set02 for No.12557

$$No01 = [\mathrm{n}(U) = 40, \mathrm{n}(A) = 22, \mathrm{n}(B) = 20, \mathrm{n}(A \cap B) = 10]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 58 & \mathrm{n}(A) = 28 & \mathrm{n}(B) = 28 & \mathrm{n}(C) = 33 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 16 & \mathrm{n}(B \cap C) = 16 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 9 \end{bmatrix}$$

$$No03 = [N = 76, F = 31, V = 34, X = 13]$$

$$No04 = [N = 98, E = 57, M = 44, B = 48, X = 15, Y = 28, Z = 17]$$

$$No05 = [N = 40, G = 22, \mathrm{W} = 24, R = 29, A = 6, B = 4, C = 12, \mathrm{D} = 5]$$

$$No06 = [\mathrm{n}(U) = 47, \mathrm{n}(A' \cap B') = 14, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 9]$$

$$No07 = [N = 30, A = 11, B = 27, C = 16, \mathrm{D} = 6, E = 9, F = 15]$$

$$No08 = [A = 16, B = 8, C = 21, \mathrm{D} = 10, E = 12, F = 18, G = 4]$$

$$No09 = [N = 500, A = 230, B = 250, C = 180, AB = 120, BC = 110, AC = 60, P = 4]$$

$$No10 = [N = 720, S = 10, A = 360, B = 90, C = 190, \mathrm{D} = 180, E = 350]$$

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Set02 for No.12637

$$No01 = [\mathrm{n}(U) = 34, \mathrm{n}(A) = 13, \mathrm{n}(B) = 17, \mathrm{n}(A \cap B) = 7]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 44 & \mathrm{n}(A) = 23 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 16 \\ \mathrm{n}(A \cap B) = 11 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 5 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 3 \end{bmatrix}$$

$$No03 = [N = 86, F = 39, V = 49, X = 25]$$

$$No04 = [N = 133, E = 72, M = 57, B = 75, X = 18, Y = 39, Z = 12]$$

$$No05 = [N = 43, G = 22, \mathrm{W} = 27, R = 19, A = 6, B = 8, C = 12, \mathrm{D} = 3]$$

$$No06 = [\mathrm{n}(U) = 37, \mathrm{n}(A' \cap B') = 7, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 9]$$

$$No07 = [N = 37, A = 18, B = 16, C = 26, \mathrm{D} = 10, E = 5, F = 10]$$

$$No08 = [A = 23, B = 15, C = 35, \mathrm{D} = 15, E = 15, F = 29, G = 7]$$

$$No09 = [N = 500, A = 340, B = 340, C = 240, AB = 250, BC = 190, AC = 130, P = 24]$$

$$No10 = [N = 710, S = 110, A = 430, B = 220, C = 260, \mathrm{D} = 210, E = 230]$$

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Set02 for No.12689

$$No01 = [\mathrm{n}(U) = 45, \mathrm{n}(A) = 24, \mathrm{n}(B) = 26, \mathrm{n}(A \cap B) = 15]$$

$$No02 = \begin{bmatrix} \mathrm{n}(U) = 36 & \mathrm{n}(A) = 17 & \mathrm{n}(B) = 22 & \mathrm{n}(C) = 17 \\ \mathrm{n}(A \cap B) = 15 & \mathrm{n}(A \cap C) = 10 & \mathrm{n}(B \cap C) = 13 & \mathrm{n}(\mathrm{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 85, F = 43, V = 48, X = 27]$$

$$No04 = [N = 119, E = 63, M = 62, B = 58, X = 8, Y = 31, Z = 16]$$

$$No05 = [N = 46, G = 32, \mathrm{W} = 23, R = 28, A = 7, B = 1, C = 16, \mathrm{D} = 6]$$

$$No06 = [\mathrm{n}(U) = 60, \mathrm{n}(A' \cap B') = 11, (\mathrm{n}(B \cap A') = \mathrm{n}(A \cap B')) = 16]$$

$$No07 = [N = 39, A = 27, B = 15, C = 18, \mathrm{D} = 12, E = 9, F = 3]$$

$$No08 = [A = 21, B = 13, C = 30, \mathrm{D} = 10, E = 13, F = 29, G = 2]$$

$$No09 = [N = 500, A = 313, B = 173, C = 127, AB = 131, BC = 11, AC = 101, P = 2]$$

$$No10 = [N = 410, S = 70, A = 240, B = 150, C = 120, \mathrm{D} = 110, E = 130]$$

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