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X Math@MUT XXXM4/2-6400102-00010XX
Set02 for No.10438

$$\begin{aligned} \text{No01} &= [n(U) = 41, n(A) = 21, n(B) = 28, n(A \cap B) = 13] \\ \text{No02} &= \left[\begin{array}{cccc} n(U) = 30 & n(A) = 15 & n(B) = 14 & n(C) = 19 \\ n(A \cap B) = 4 & n(A \cap C) = 11 & n(B \cap C) = 11 & n(\text{intersect}(A, B, C)) = 3 \end{array} \right] \\ \text{No03} &= [N = 92, F = 49, V = 45, X = 24] \\ \text{No04} &= [N = 103, E = 71, M = 58, B = 47, X = 18, Y = 20, Z = 20] \\ \text{No05} &= [N = 44, G = 21, W = 27, R = 20, A = 8, B = 7, C = 12, D = 3] \\ \text{No06} &= [n(U) = 31, n(A' \cap B') = 5, (n(B \cap A') = n(A \cap B')) = 5] \\ \text{No07} &= [N = 39, A = 19, B = 25, C = 18, D = 7, E = 11, F = 8] \\ \text{No08} &= [A = 33, B = 18, C = 29, D = 19, E = 20, F = 29, G = 10] \\ \text{No09} &= [N = 500, A = 333, B = 263, C = 227, AB = 201, BC = 121, AC = 201, P = 24] \\ \text{No10} &= [N = 720, S = 70, A = 380, B = 170, C = 230, D = 280, E = 260] \end{aligned}$$

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X Math@MUT XXXM4/2-6400102-00011XX
Set02 for No.11352

$$\begin{aligned} \text{No01} &= [n(U) = 54, n(A) = 25, n(B) = 30, n(A \cap B) = 15] \\ \text{No02} &= \left[\begin{array}{cccc} n(U) = 47 & n(A) = 20 & n(B) = 23 & n(C) = 19 \\ n(A \cap B) = 9 & n(A \cap C) = 5 & n(B \cap C) = 7 & n(\text{intersect}(A, B, C)) = 3 \end{array} \right] \\ \text{No03} &= [N = 75, F = 34, V = 31, X = 11] \\ \text{No04} &= [N = 120, E = 58, M = 64, B = 55, X = 12, Y = 31, Z = 21] \\ \text{No05} &= [N = 38, G = 20, W = 28, R = 26, A = 5, B = 6, C = 15, D = 9] \\ \text{No06} &= [n(U) = 49, n(A' \cap B') = 10, (n(B \cap A') = n(A \cap B')) = 11] \\ \text{No07} &= [N = 25, A = 15, B = 16, C = 17, D = 8, E = 6, F = 13] \\ \text{No08} &= [A = 24, B = 12, C = 27, D = 19, E = 12, F = 28, G = 9] \\ \text{No09} &= [N = 600, A = 289, B = 279, C = 333, AB = 163, BC = 143, AC = 163, P = 10] \\ \text{No10} &= [N = 780, S = 20, A = 480, B = 200, C = 200, D = 180, E = 400] \end{aligned}$$

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X Math@MUT XXXM4/2-6400102-00012XX
Set02 for No.11778

$$\begin{aligned} \text{No01} &= [n(U) = 34, n(A) = 15, n(B) = 18, n(A \cap B) = 6] \\ \text{No02} &= \left[\begin{array}{cccc} n(U) = 40 & n(A) = 20 & n(B) = 31 & n(C) = 18 \\ n(A \cap B) = 13 & n(A \cap C) = 9 & n(B \cap C) = 15 & n(\text{intersect}(A, B, C)) = 6 \end{array} \right] \\ \text{No03} &= [N = 62, F = 40, V = 31, X = 20] \\ \text{No04} &= [N = 152, E = 85, M = 68, B = 71, X = 23, Y = 42, Z = 21] \\ \text{No05} &= [N = 40, G = 18, W = 17, R = 18, A = 9, B = 8, C = 4, D = 0] \\ \text{No06} &= [n(U) = 41, n(A' \cap B') = 5, (n(B \cap A') = n(A \cap B')) = 12] \\ \text{No07} &= [N = 32, A = 13, B = 22, C = 15, D = 6, E = 7, F = 8] \\ \text{No08} &= [A = 36, B = 15, C = 33, D = 24, E = 23, F = 40, G = 12] \\ \text{No09} &= [N = 600, A = 305, B = 345, C = 265, AB = 135, BC = 175, AC = 155, P = 15] \\ \text{No10} &= [N = 630, S = 90, A = 270, B = 40, C = 160, D = 130, E = 290] \end{aligned}$$

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X Math@MUT XXXM4/2-6400102-00013XX
Set02 for No.12403

$$\begin{aligned}
No01 &= [n(U) = 37, n(A) = 13, n(B) = 16, n(A \cap B) = 7] \\
No02 &= \left[\begin{array}{cccc} n(U) = 40 & n(A) = 19 & n(B) = 19 & n(C) = 21 \\ n(A \cap B) = 8 & n(A \cap C) = 9 & n(B \cap C) = 16 & n(\text{intersect}(A, B, C)) = 6 \end{array} \right] \\
No03 &= [N = 82, F = 41, V = 37, X = 19] \\
No04 &= [N = 103, E = 60, M = 61, B = 56, X = 9, Y = 26, Z = 19] \\
No05 &= [N = 44, G = 25, W = 26, R = 24, A = 4, B = 10, C = 11, D = 8] \\
No06 &= [n(U) = 55, n(A' \cap B') = 8, (n(B \cap A') = n(A \cap B')) = 16] \\
No07 &= [N = 31, A = 17, B = 21, C = 20, D = 8, E = 13, F = 12] \\
No08 &= [A = 35, B = 18, C = 36, D = 14, E = 18, F = 37, G = 6] \\
No09 &= [N = 500, A = 230, B = 160, C = 190, AB = 50, BC = 70, AC = 90, P = 8] \\
No10 &= [N = 840, S = 100, A = 530, B = 290, C = 250, D = 250, E = 250]
\end{aligned}$$

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X Math@MUT XXXM4/2-6400102-00014XX
Set02 for No.12456

$$\begin{aligned}
No01 &= [n(U) = 50, n(A) = 24, n(B) = 27, n(A \cap B) = 12] \\
No02 &= \left[\begin{array}{cccc} n(U) = 37 & n(A) = 18 & n(B) = 24 & n(C) = 14 \\ n(A \cap B) = 8 & n(A \cap C) = 8 & n(B \cap C) = 9 & n(\text{intersect}(A, B, C)) = 3 \end{array} \right] \\
No03 &= [N = 65, F = 39, V = 33, X = 21] \\
No04 &= [N = 138, E = 59, M = 72, B = 61, X = 20, Y = 31, Z = 22] \\
No05 &= [N = 44, G = 27, W = 22, R = 22, A = 6, B = 6, C = 11, D = 3] \\
No06 &= [n(U) = 50, n(A' \cap B') = 13, (n(B \cap A') = n(A \cap B')) = 11] \\
No07 &= [N = 37, A = 22, B = 12, C = 23, D = 11, E = 6, F = 5] \\
No08 &= [A = 43, B = 21, C = 32, D = 19, E = 14, F = 30, G = 9] \\
No09 &= [N = 400, A = 139, B = 179, C = 181, AB = 75, BC = 55, AC = 65, P = 2] \\
No10 &= [N = 750, S = 40, A = 390, B = 240, C = 220, D = 210, E = 270]
\end{aligned}$$

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X Math@MUT XXXM4/2-6400102-00015XX
Set02 for No.12545

$$\begin{aligned}
No01 &= [n(U) = 36, n(A) = 15, n(B) = 18, n(A \cap B) = 7] \\
No02 &= \left[\begin{array}{cccc} n(U) = 39 & n(A) = 22 & n(B) = 12 & n(C) = 23 \\ n(A \cap B) = 3 & n(A \cap C) = 12 & n(B \cap C) = 10 & n(\text{intersect}(A, B, C)) = 2 \end{array} \right] \\
No03 &= [N = 86, F = 42, V = 39, X = 16] \\
No04 &= [N = 120, E = 48, M = 74, B = 77, X = 0, Y = 33, Z = 13] \\
No05 &= [N = 45, G = 28, W = 28, R = 26, A = 7, B = 1, C = 18, D = 8] \\
No06 &= [n(U) = 34, n(A' \cap B') = 14, (n(B \cap A') = n(A \cap B')) = 5] \\
No07 &= [N = 46, A = 22, B = 18, C = 32, D = 13, E = 4, F = 12] \\
No08 &= [A = 35, B = 19, C = 39, D = 13, E = 18, F = 36, G = 7] \\
No09 &= [N = 600, A = 344, B = 204, C = 366, AB = 122, BC = 142, AC = 212, P = 16] \\
No10 &= [N = 890, S = 150, A = 380, B = 170, C = 200, D = 270, E = 340]
\end{aligned}$$

[illegible]

$$No01 = [n(U) = 46, n(A) = 24, n(B) = 28, n(A \cap B) = 14]$$

$$No02 = \begin{bmatrix} n(U) = 31 & n(A) = 17 & n(B) = 19 & n(C) = 12 \\ n(A \cap B) = 11 & n(A \cap C) = 8 & n(B \cap C) = 8 & n(\text{intersect}(A, B, C)) = 4 \end{bmatrix}$$

$$No03 = [N = 76, F = 29, V = 36, X = 13]$$

$$No04 = [N = 126, E = 68, M = 67, B = 81, X = 13, Y = 35, Z = 13]$$

$$No05 = [N = 29, G = 21, W = 16, R = 15, A = 3, B = 5, C = 11, D = 7]$$

$$No06 = [n(U) = 46, n(A' \cap B') = 15, (n(B \cap A') = n(A \cap B')) = 10]$$

$$No07 = [N = 35, A = 21, B = 18, C = 30, D = 19, E = 10, F = 15]$$

$$No08 = [A = 26, B = 9, C = 16, D = 12, E = 8, F = 30, G = 1]$$

$$No09 = [N = 600, A = 318, B = 288, C = 392, AB = 100, BC = 200, AC = 200, P = 11]$$

$$NoI0 = [N = 970, S = 120, A = 520, B = 250, C = 310, D = 280, E = 340]$$

[illegible]

$$No01 = [n(U) = 35, n(A) = 14, n(B) = 15, n(A \cap B) = 6]$$

$$No02 = \begin{bmatrix} n(U) = 53 & n(A) = 26 & n(B) = 31 & n(C) = 28 \\ n(A \cap B) = 19 & n(A \cap C) = 16 & n(B \cap C) = 17 & n(\text{intersect}(A, B, C)) = 10 \end{bmatrix}$$

$$No03 = [N = 60, F = 31, V = 34, X = 19]$$

$$No04 = [N = 137, E = 65, M = 80, B = 56, X = 21, Y = 16, Z = 17]$$

$$No05 = [N = 46, G = 32, W = 25, R = 24, A = 8, B = 4, C = 19, D = 10]$$

$$No06 = [n(U) = 26, n(A' \cap B') = 9, (n(B \cap A') = n(A \cap B')) = 5]$$

$$No07 = [N = 49, A = 34, B = 34, C = 27, D = 18, E = 20, F = 18]$$

$$No08 = [A = 23, B = 12, C = 17, D = 10, E = 9, F = 25, G = 4]$$

$$No09 = [N = 600, A = 321, B = 321, C = 383, AB = 147, BC = 187, AC = 187, P = 15]$$

$$No10 = [N = 660, S = 70, A = 280, B = 90, C = 110, D = 100, E = 280]$$

[illegible]

$$No01 = [n(U) = 42, n(A) = 16, n(B) = 20, n(A \cap B) = 9]$$

$$No02 = \begin{bmatrix} n(U) = 34 & n(A) = 16 & n(B) = 21 & n(C) = 23 \\ n(A \cap B) = 8 & n(A \cap C) = 11 & n(B \cap C) = 15 & n(\text{intersect}(A, B, C)) = 6 \end{bmatrix}$$

$$No03 = [N = 81, F = 29, V = 45, X = 18]$$

$$No04 = [N = 108, E = 65, M = 67, B = 55, X = 10, Y = 16, Z = 17]$$

$$No05 = [N = 26, G = 15, W = 12, R = 14, A = 4, B = 2, C = 5, D = 0]$$

$$No06 = [n(U) = 30, n(A' \cap B') = 7, (n(B \cap A') = n(A \cap B')) = 6]$$

$$No07 = [N = 50, A = 32, B = 27, C = 34, D = 17, E = 18, F = 17]$$

$$No08 = [A = 17, B = 11, C = 30, D = 7, E = 13, F = 26, G = 5]$$

$$No09 = [N = 500, A = 218, B = 358, C = 292, AB = 176, BC = 196, AC = 86, P = 16]$$

$$NoI0 = [N = 870, S = 140, A = 560, B = 290, C = 260, D = 290, E = 140]$$

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X Math@MUT XXXM4/2-6400102-00064XX
Set02 for No.644230

$$No01 = [n(U) = 40, n(A) = 18, n(B) = 21, n(A \cap B) = 10]$$

$$No02 = \left[\begin{array}{cccc} n(U) = 50 & n(A) = 31 & n(B) = 26 & n(C) = 32 \\ n(A \cap B) = 14 & n(A \cap C) = 19 & n(B \cap C) = 19 & n(\text{intersect}(A, B, C)) = 9 \end{array} \right]$$

$$No03 = [N = 63, F = 35, V = 28, X = 13]$$

$$No04 = [N = 125, E = 70, M = 58, B = 67, X = 18, Y = 30, Z = 21]$$

$$No05 = [N = 28, G = 13, W = 21, R = 13, A = 3, B = 5, C = 9, D = 0]$$

$$No06 = [n(U) = 35, n(A' \cap B') = 15, (n(B \cap A') = n(A \cap B')) = 6]$$

$$No07 = [N = 46, A = 26, B = 26, C = 31, D = 15, E = 14, F = 13]$$

$$No08 = [A = 29, B = 14, C = 18, D = 17, E = 6, F = 27, G = 6]$$

$$No09 = [N = 700, A = 309, B = 409, C = 423, AB = 169, BC = 249, AC = 219, P = 17]$$

$$No10 = [N = 680, S = 110, A = 180, B = 50, C = 10, D = 140, E = 250]$$

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