Mathdoku

I solved the problem based on my understanding of +, −, ×, ÷. I used my logical reasoning and the constraints set by the rules.

Examples of factors of multiplication and numbers.

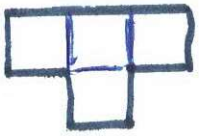
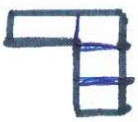
24×

24 = 2×12 } out (not part of 1,2,3,4)
= 2×2×6 }
= 2×2×2×3
= 2×4×3
= 2×4×3×1

48×

48 = 2×24
= 2×2×12
= 2×2×2×6
= 2×2×2×2×3
= 2×4×2×3

} out

Mathdoku question	target number	cage shape	possible numbers	Comments + explanation
M2 Q2	24×		2×4×3	no repeat in a row.
M2 Q3	24×		2×4×3×1	no repeat
M3 Q4	48×		2×2×3×4	2 can appear in 2 different columns

M1Q1

9+ 4	3x 3	1	2 4
2	4÷ 1	7+ 4	3
3	4	6x 2	1
2x 1	2	3	4

M1Q2

24x 2	4	3÷ 3	1 1
3	8x 2	1	12x 4
4	1	2 2	3
1 1	9+ 3	4	2

Mathdoku 1

M1 Q3

3÷ 1	3 3	5+ 4	2 2
3	16x 2	1	4÷ 4
2	4	6+ 3	1
4 4	1	2	3 3

M1 Q4

12x 4	3	2÷ 2	1
1	4 4	6+ 3	2
1- 3	2	1	4 4
2 2	12x 1	4	3

M201

2 2	12× 4	1	3
9+ 4	6+ 1	3	2
3	2	4 4	4÷ 1
2- 1	3	2 2	4

M202

11+ 4	3 3	3+ 1	2
2	12× 1	3	4
1	4	2 2	2- 3
24× 3	2	4	1

Mathdoku 2

M2 Q3

3÷ 3	24x 4	2	1
1	5+ 2	3	6+ 4
4 4	3	8+ 1	2
1- 2	1	4	3

M2Q4

3÷ 1	3 3	5+ 4	2 2
3	16x 2	1	4÷ 4
2	4	6+ 3	1
4 4	1	2	3 3

(M3Q1)

4+ 1	3	2÷ 2	4
24x 3	8x 2	4	1
2	4	1 1	18x 3
3- 4	1	3	2

(M3Q2)

12x 3	4	6+ 2	1
1 1	2- 2	4	3
2÷ 4	4+ 1	6x 3	2
2	3	5+ 1	4

Mathdoku 3

M3Q3

10+ 2	4	1	6x 3
8+ 4	3÷ 1	3	2
1	3	2÷ 2	4
3	8x 2	4	1

M3Q4

2- 1	3	48x 2	4
2- 2	4x 4	1	3
4	1	8+ 3	2
1- 3	2	4	1