

artouche puzzles

In each of these puzzles choose four digits from 0 through 9. Place one of these in each row and column. Use the operators in the white regions first, then between white regions. If there is no operator, the digits form a single number. The operator \ominus takes the difference of the two numbers. The operator \div divides the bigger number by the smaller number.

36

8 × 4

+

4

Correct:
 $(8 \times 4) + 4 = 36$

5

0 3 ÷ 1 5

Correct:
 $15 \div 3 = 5$

36

6 × 5

+

2

Incorrect:
 $(6 \times 5) + 2 \neq 36$

12

0 3 ÷ 3 6

Incorrect:
 $36 \div 3 = 12$
but the row contains duplicate 3s.

60

1 × 5

+

2

Correct:
 $12 \times 5 = 60$

8

7 + 3 ÷ 8 0

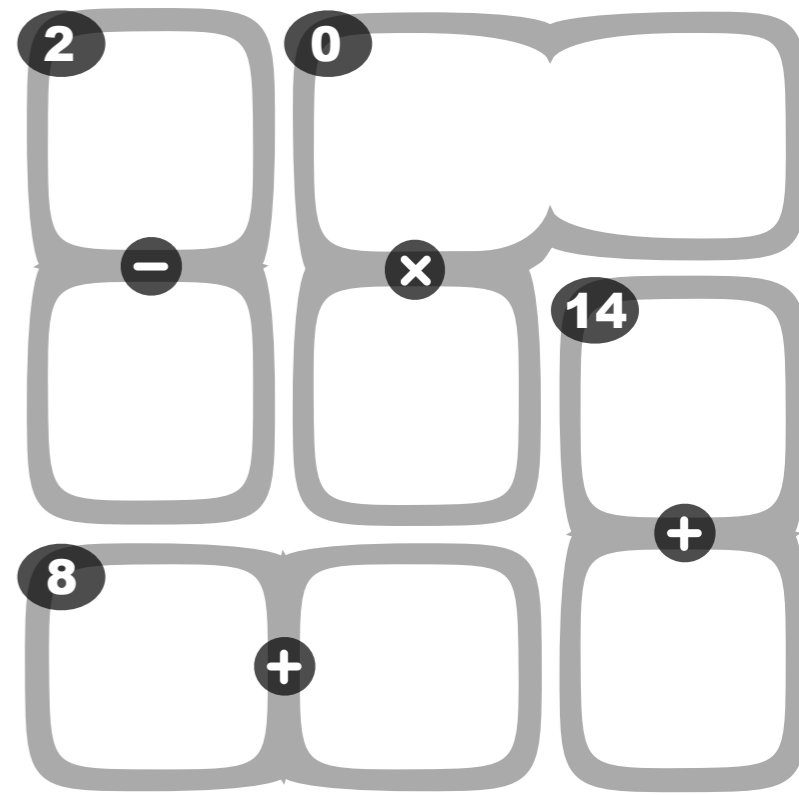
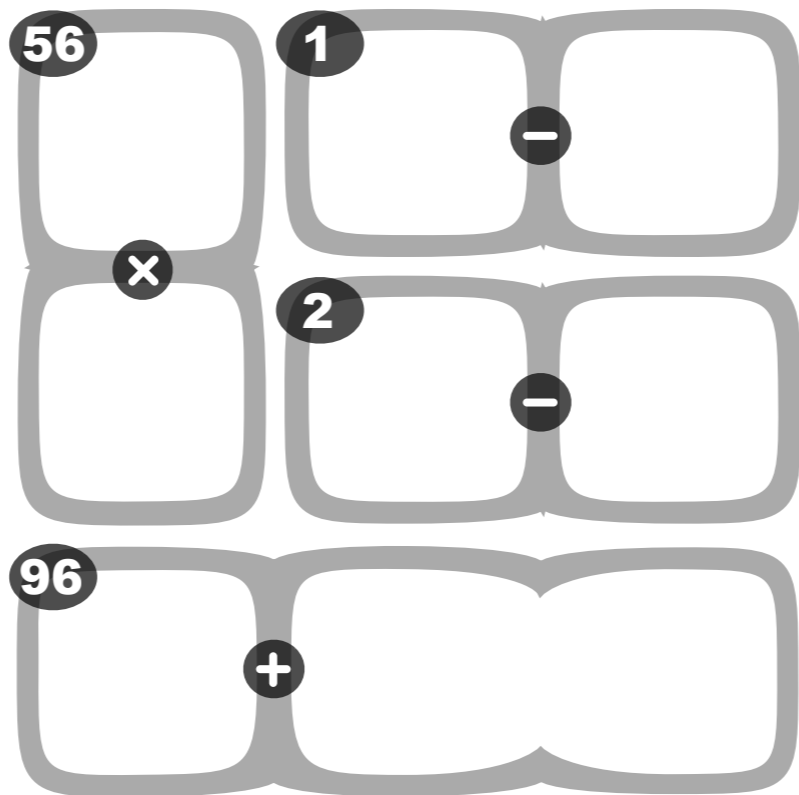
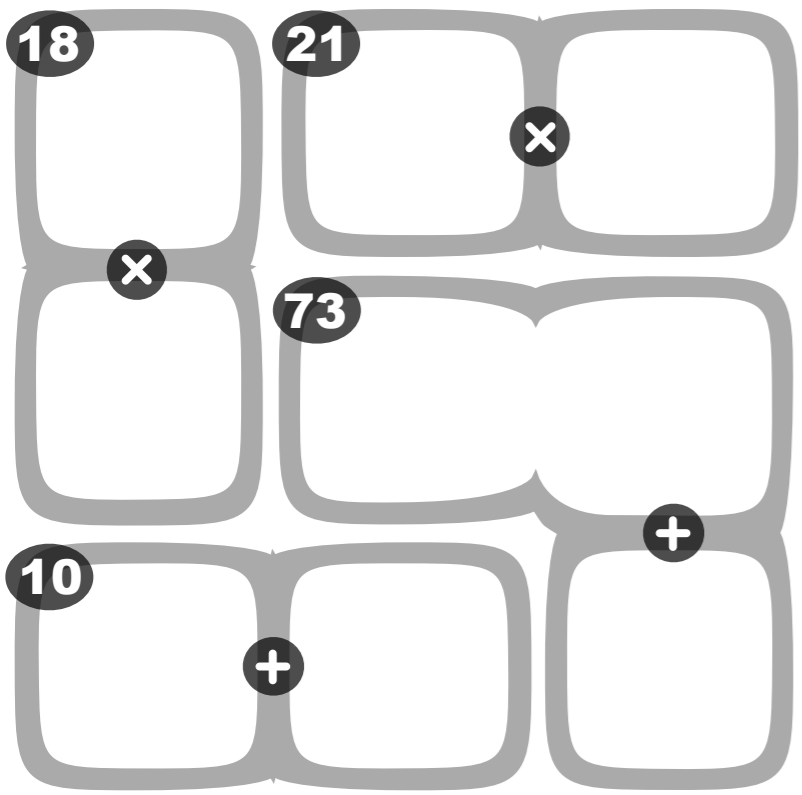
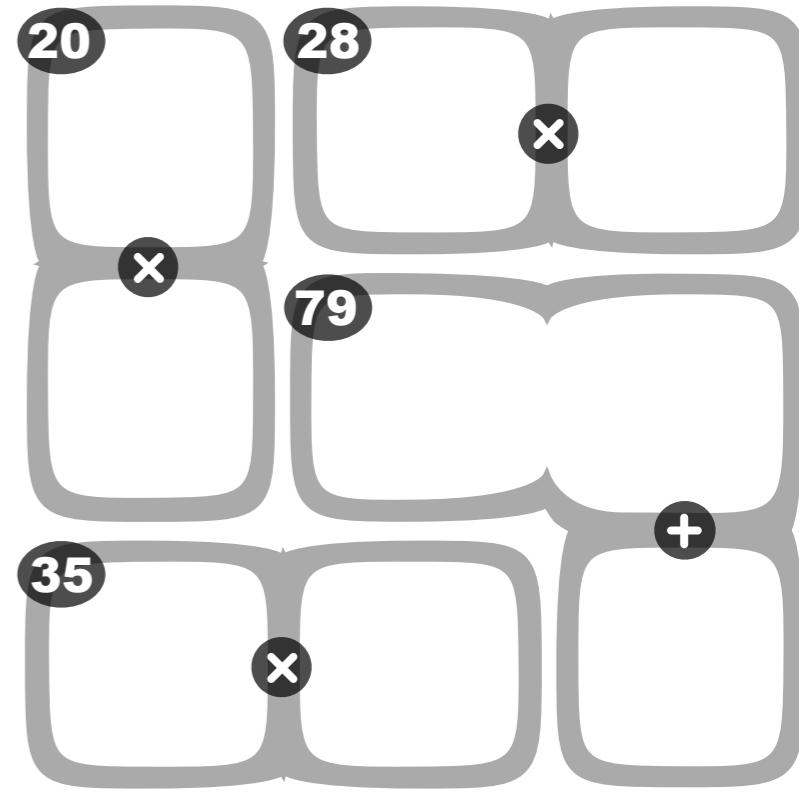
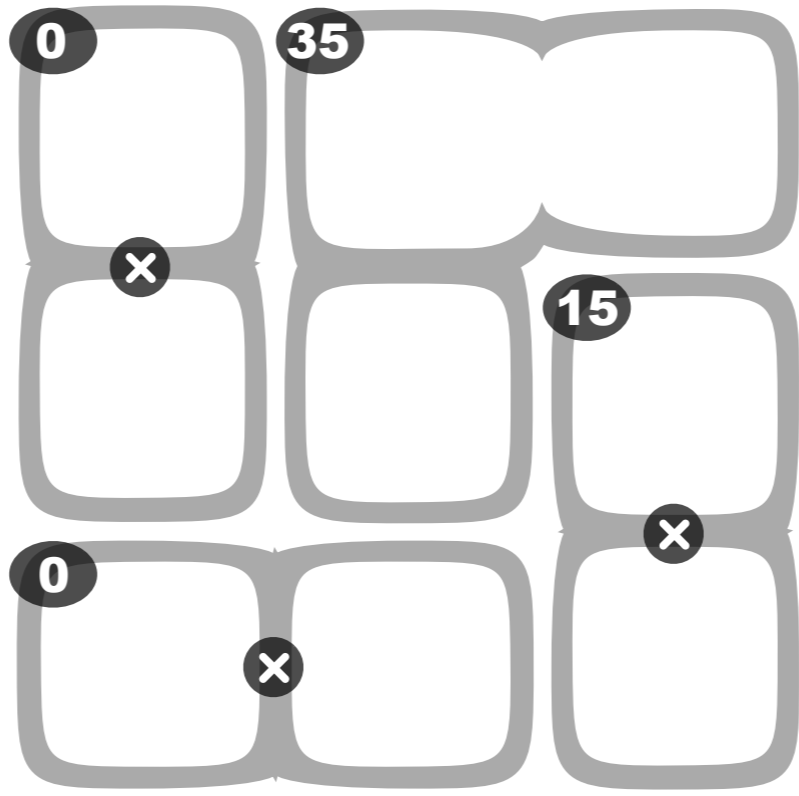
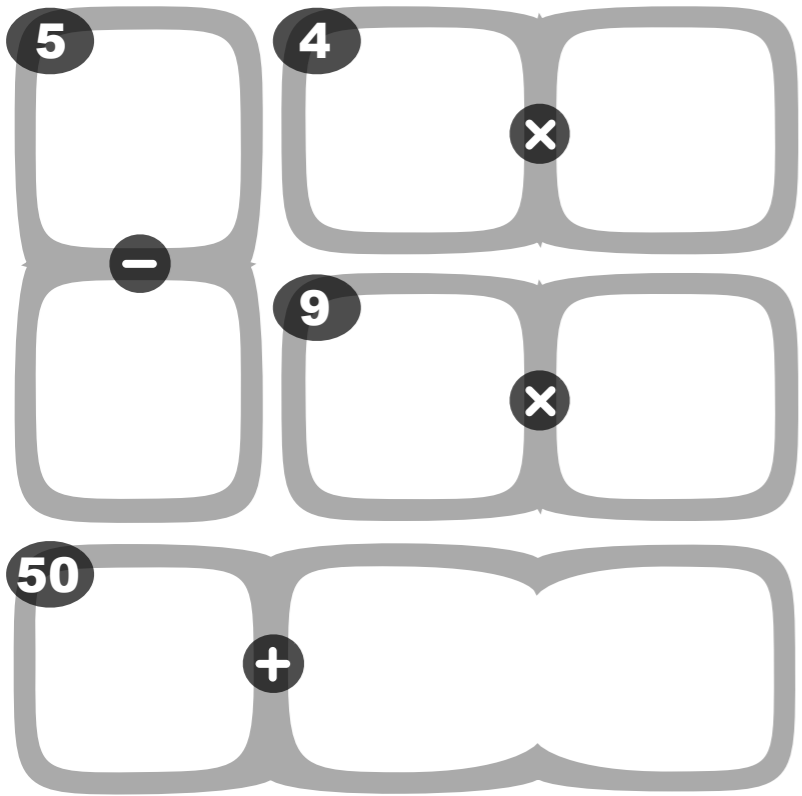
Correct:
 $80 \div (7+3) = 8$

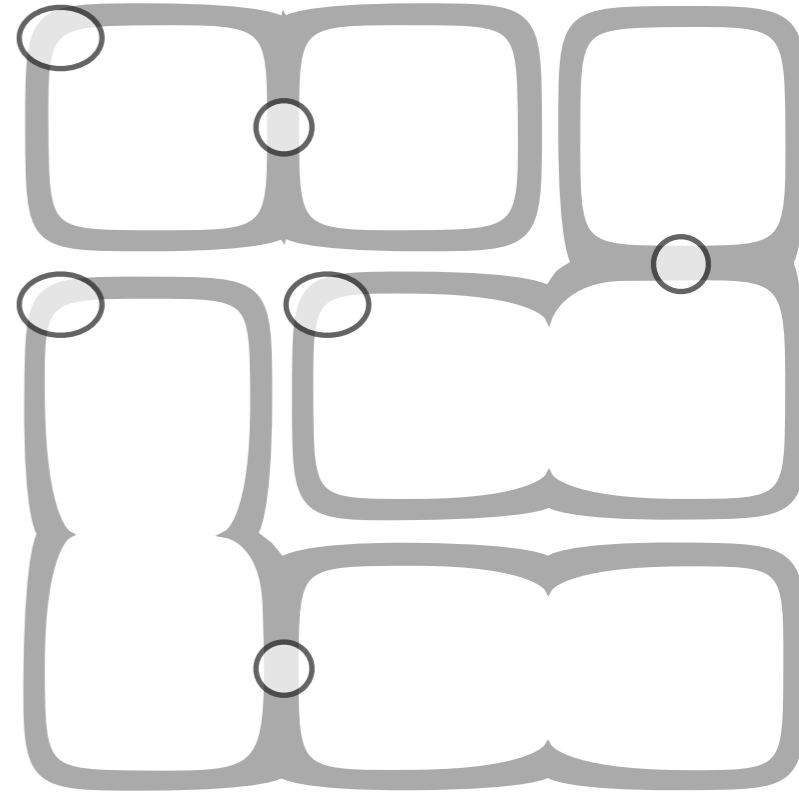
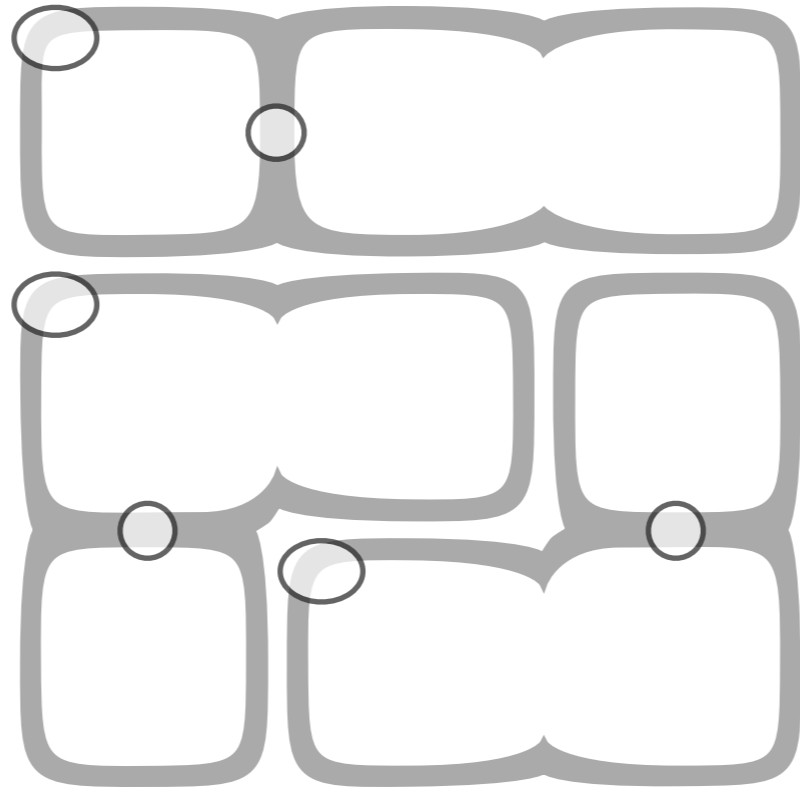
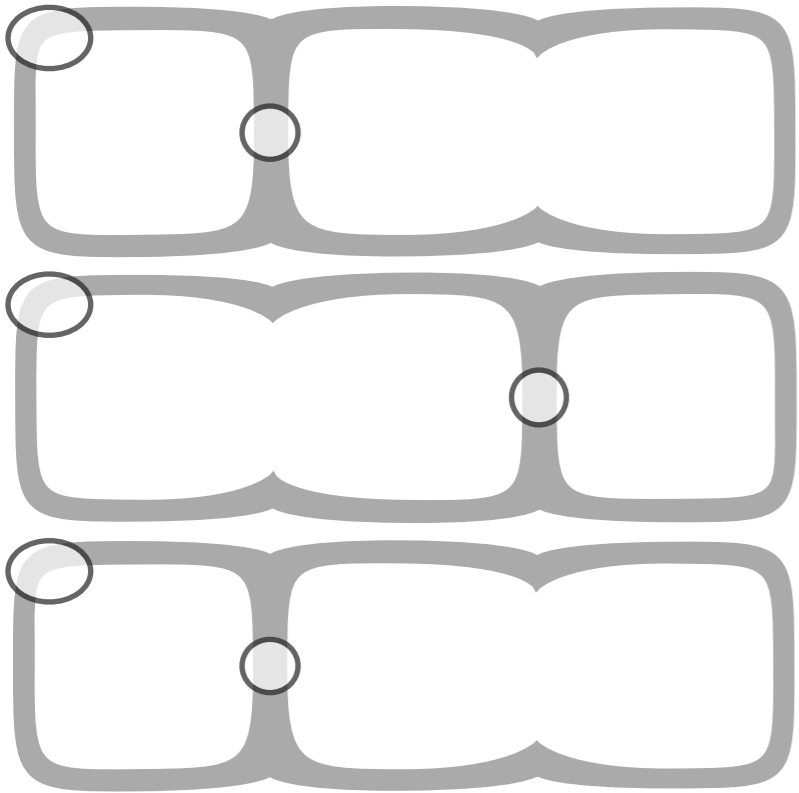
A 3x3 grid puzzle. The top row has a target of 3 and a plus sign between the first and second cells. The middle row has a target of 3 and a division sign between the first and second cells. The bottom row has a target of 4 and a plus sign between the first and second cells. The right column has a target of 0 and a multiplication sign between the first and second cells. The middle-right cell has a target of 66 and a plus sign between the first and second cells. The bottom-right cell has a target of 3 and a plus sign between the first and second cells.

Sample Puzzle

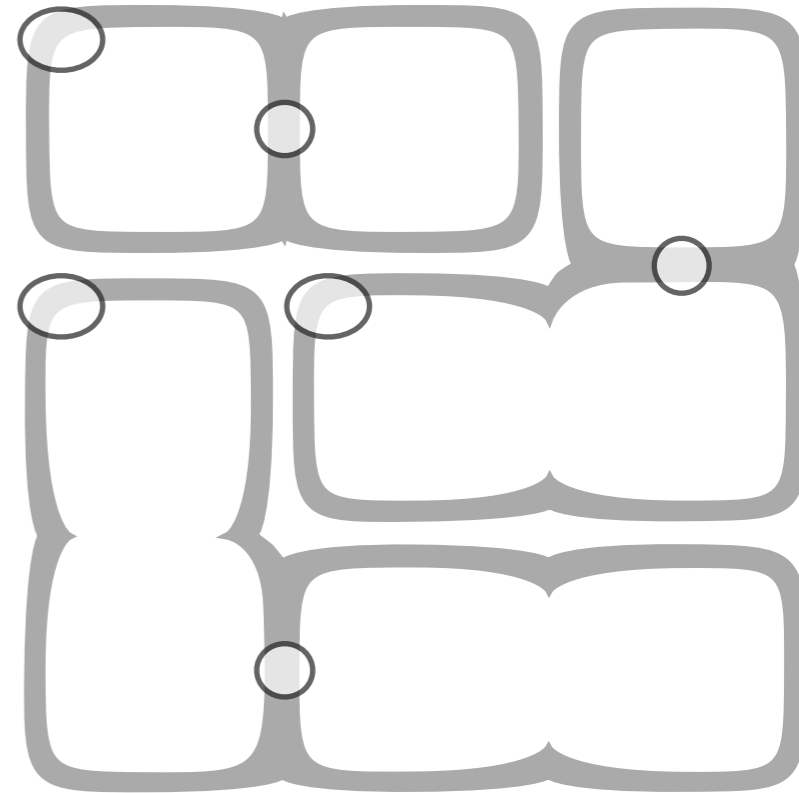
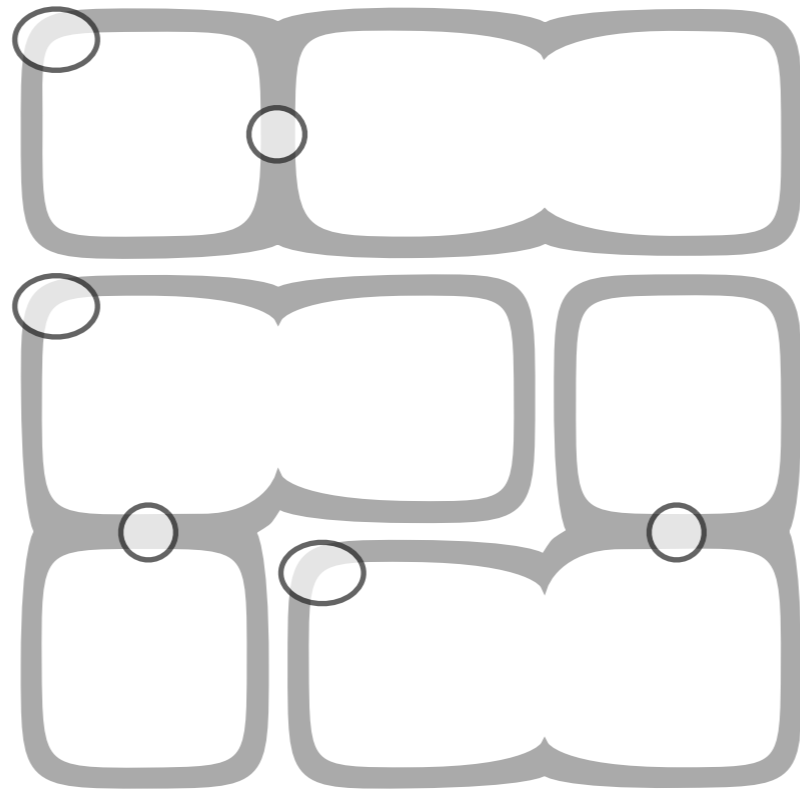
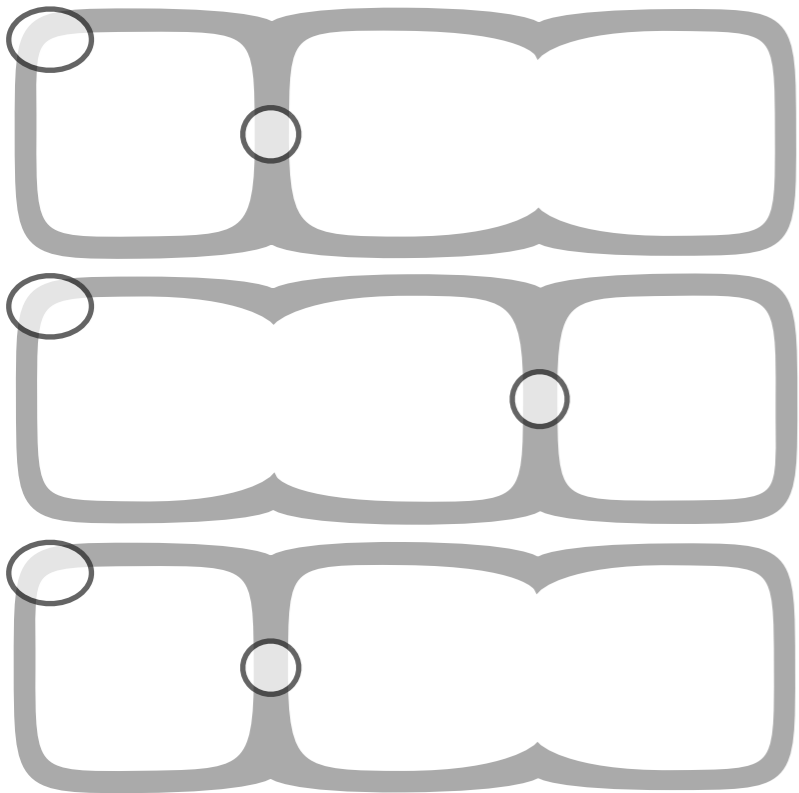
A 3x3 grid showing the solution. The top row has a target of 3 and a plus sign between 3 and 0. The middle row has a target of 3 and a multiplication sign between 1 and 5. The bottom row has a target of 4 and a plus sign between 0 and 3. The right column has a target of 0 and a multiplication sign between 1 and 5. The middle-right cell has a target of 66 and a plus sign between 0 and 3. The bottom-right cell has a target of 3 and a plus sign between 3 and 0.

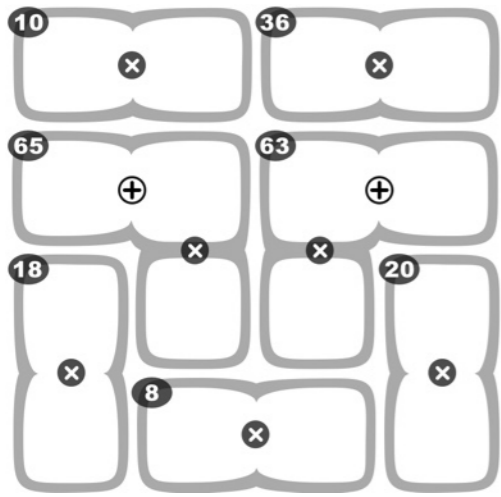
Solution



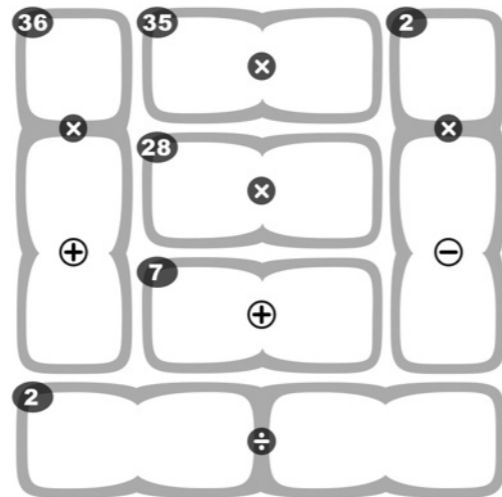


Make a puzzle above. Copy the operators and target numbers below. Give it to a friend or enemy.

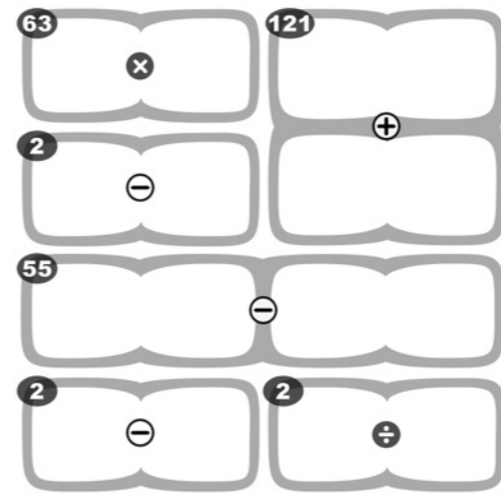




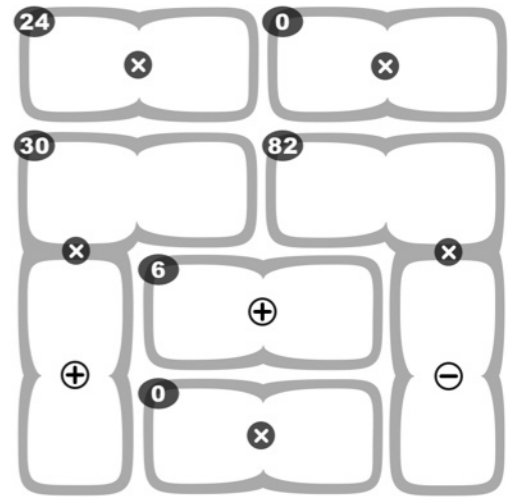
☆☆☆☆☆
digits: 2, 4, 5, 9



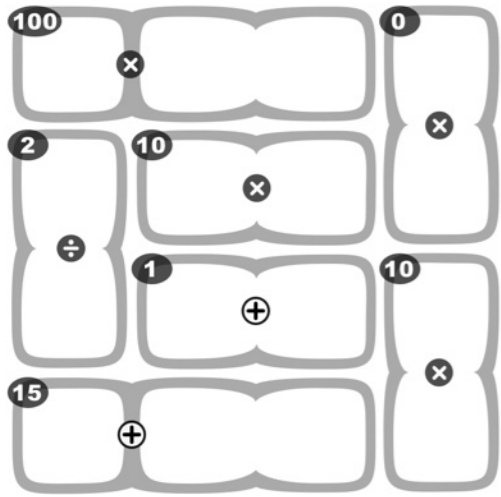
☆☆☆☆☆



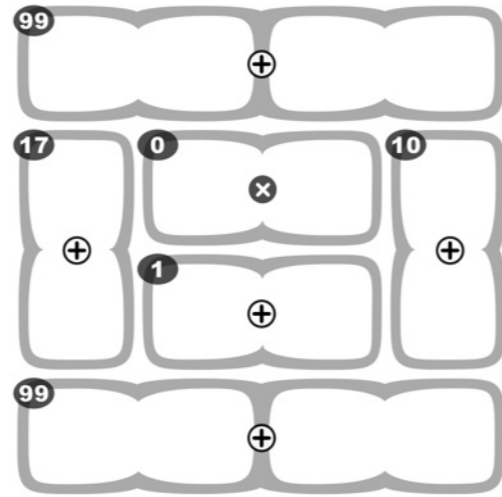
☆☆☆☆☆
by Tyler 4 solutions



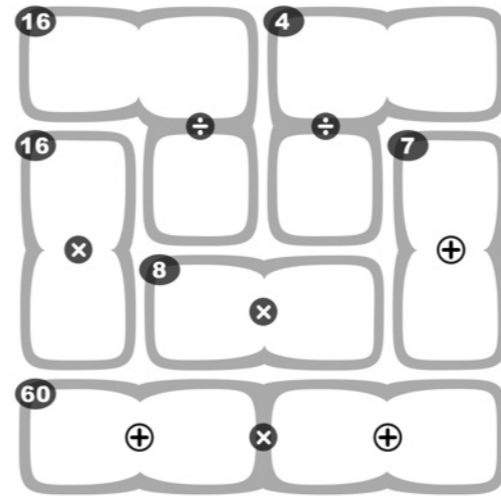
☆☆☆☆☆



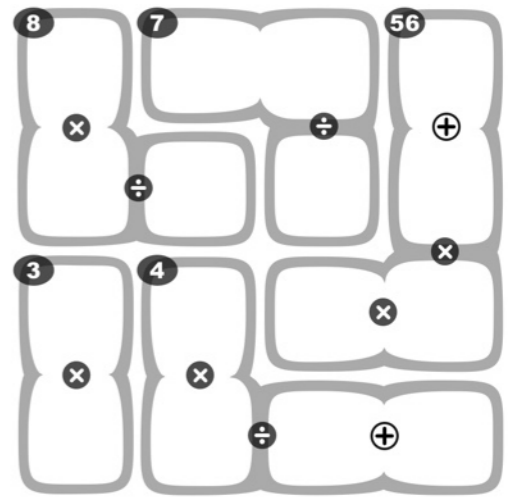
☆☆☆☆☆
digits: 0, 1, 2, 5



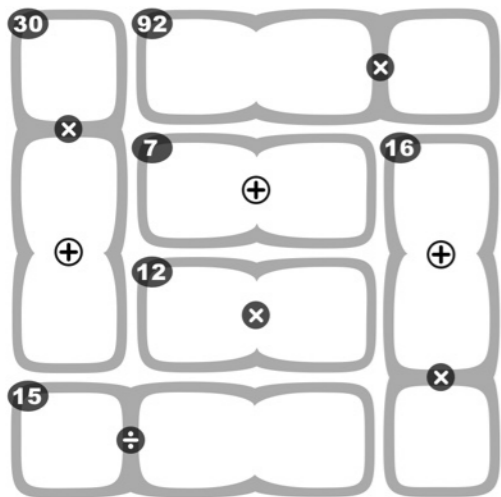
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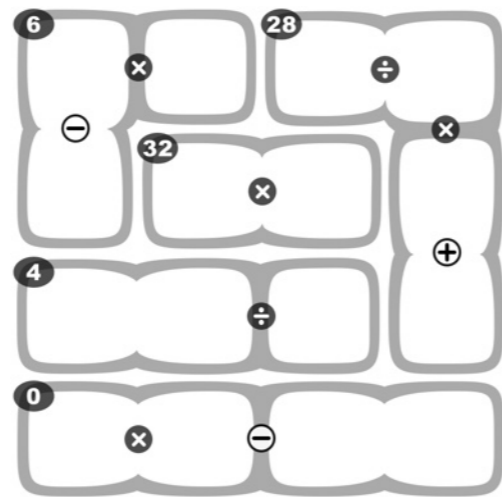
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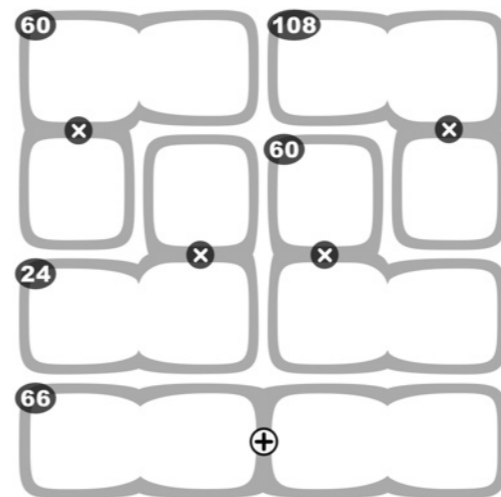
☆☆☆☆☆
by Danielle



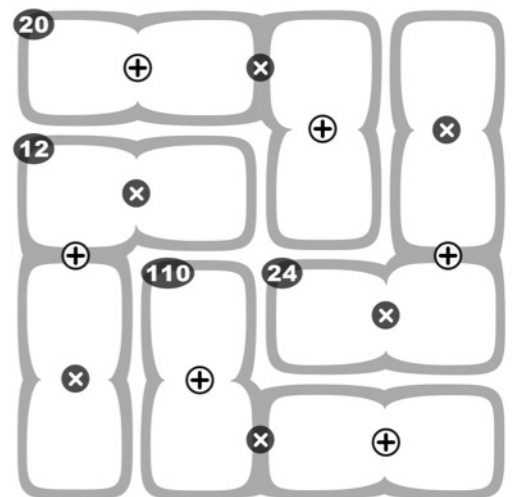
☆☆☆☆☆
digits: 2, 3, 4, 5



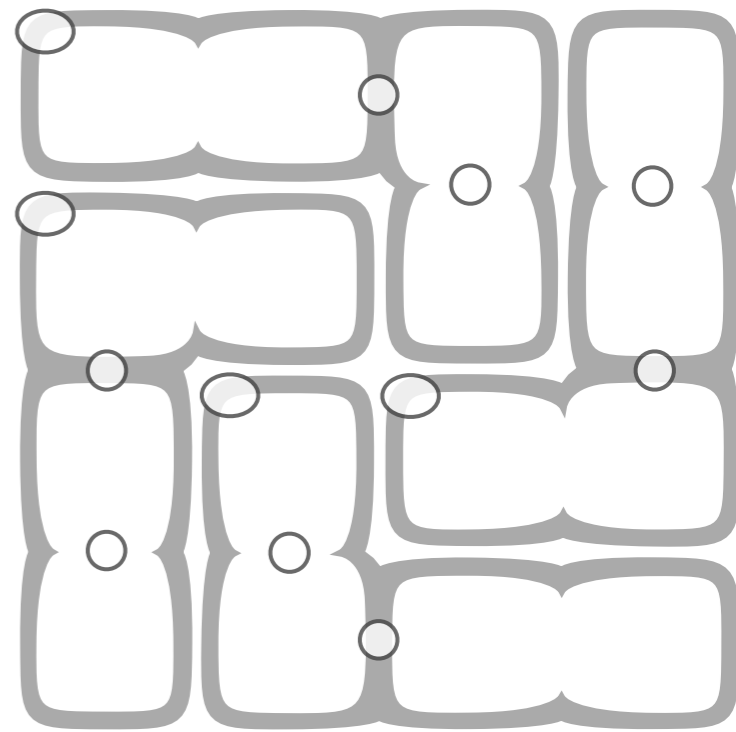
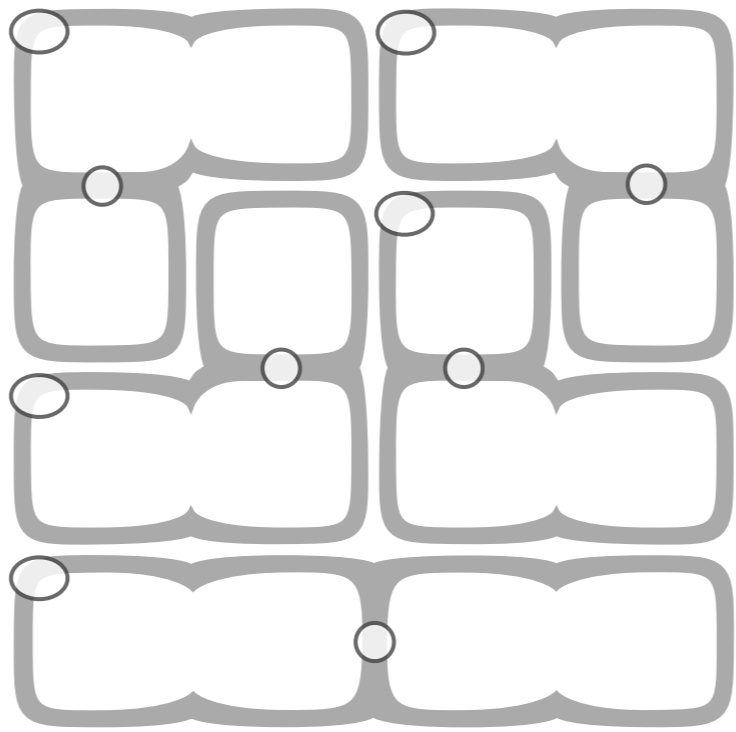
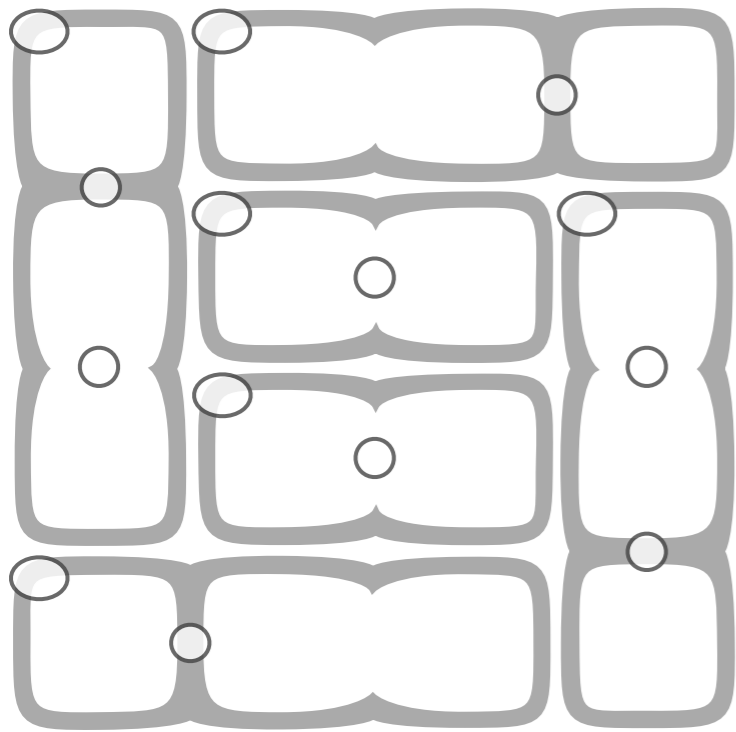
☆☆☆☆☆
by Lily



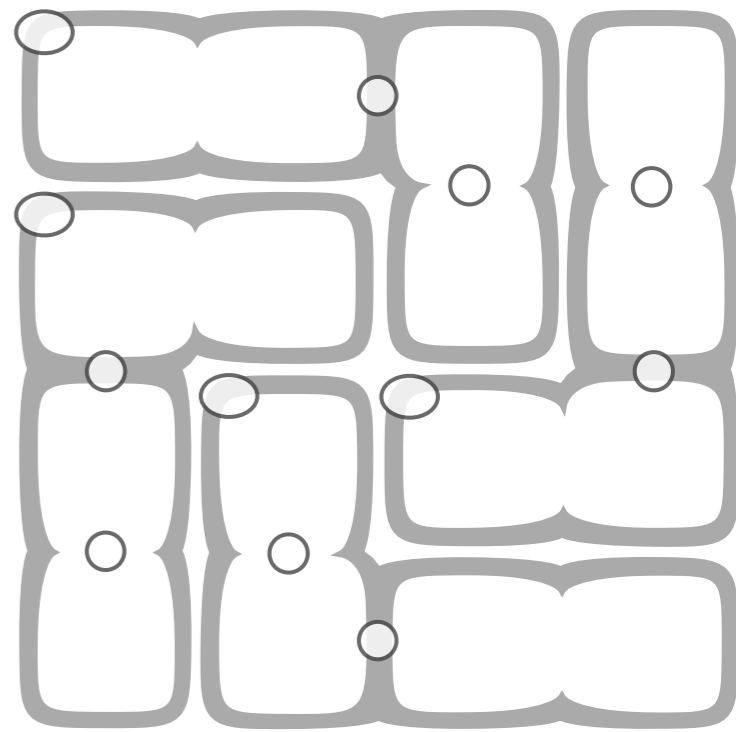
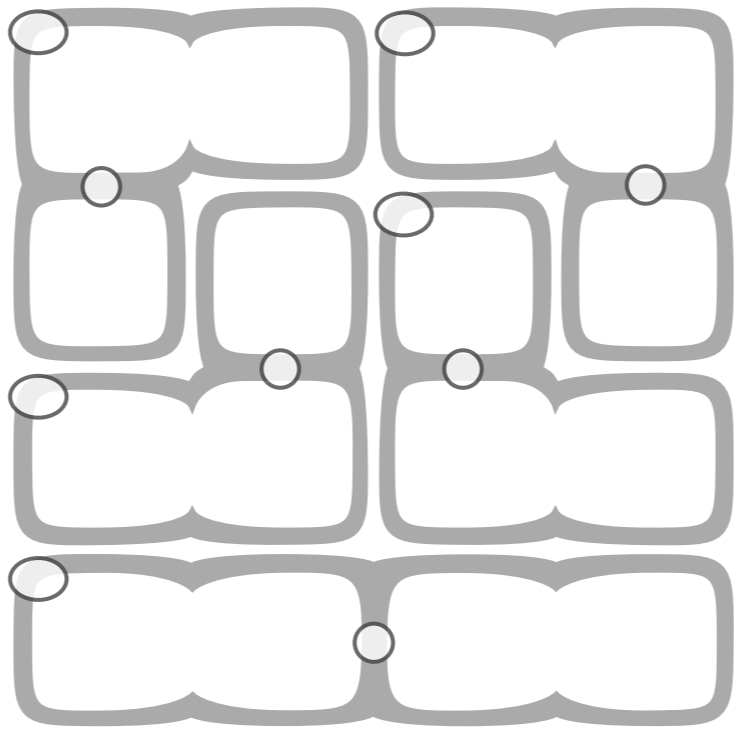
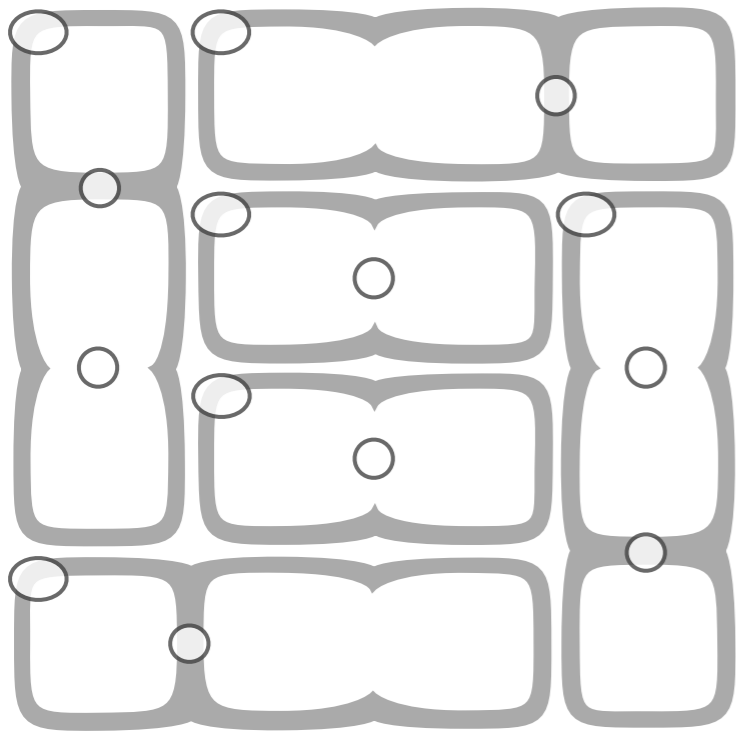
☆☆☆☆☆



☆☆☆☆☆



Make a puzzle above. Copy the operators and target numbers below. Give it to a friend or enemy.



Choose six digits from 0 through 9.

208		2	75	92	
×		÷		+	
	69			+	
	+				
		4		18	
			-		×
11		4		32	
	+		÷		×
				+	
20	18		10		41
		×			
			-		×
	+				-

☆☆☆☆☆
by William and Simon

31		51	120	210	
	-		-	×	×
		×			
21		0		40	
	×		×		×
13		3		8	
	+		+		+
48		4	371	8	
	+				+
	×		-	×	×

☆☆☆☆☆
by Genevieve, Rhys, Elias & Saskia

Choose five digits from 0 through 9.

7				
			÷	
5	90			1
			×	
		273		
			×	
6			×	
				-

☆☆☆☆☆
by Dr. Pickle

5
9
4
1
9
1
4
9
1
4
9

$9 - 4 = 5$
 $1 \times 4 = 4$
 $9 \times 1 = 9$
 $1 + 4 = 5$
 $4 + 9 = 13$
 $1 + 9 = 10$

0
5
0
3
0
5
3
0
5

$5 \times 0 = 0$
 $3 \times 0 = 3$
 $0 \times 5 = 0$
 $3 \times 0 = 3$
 $0 \times 5 = 0$
 $5 \times 3 = 15$
 $3 \times 5 = 15$
 $0 \times 5 = 0$
 $5 \times 3 = 15$

20
5
4
7
5
7
5
4

$5 \times 4 = 20$
 $4 \times 7 = 28$
 $7 \times 5 = 35$
 $5 \times 7 = 35$
 $7 \times 5 = 35$
 $5 \times 4 = 20$
 $7 \times 5 = 35$
 $5 \times 4 = 20$

18
6
3
7
3
6
7
3
6

$6 \times 3 = 18$
 $3 \times 7 = 21$
 $7 \times 3 = 21$
 $3 \times 6 = 18$
 $6 \times 7 = 42$
 $7 \times 3 = 21$
 $3 \times 6 = 18$
 $6 \times 7 = 42$
 $7 \times 3 = 21$

56
7
8
9
7
8
9

$7 \times 8 = 56$
 $9 - 8 = 1$
 $8 \times 7 = 56$
 $7 - 9 = -2$
 $9 - 8 = 1$
 $8 \times 7 = 56$
 $9 + 8 = 17$

2
8
6
0
8
6
0

$8 - 6 = 2$
 $6 \times 0 = 0$
 $0 \times 8 = 0$
 $8 + 6 = 14$
 $6 \times 0 = 0$
 $0 \times 8 = 0$
 $8 + 6 = 14$
 $6 \times 0 = 0$
 $0 \times 8 = 0$

5×2	4×9
$4 \oplus 9$	$5 \oplus 2$
2×5	9×4
9×4	2×5

★ ★ ★ ★ ★
 digits: 2, 4, 5, 9

4×5	7×2
2×7	4×5
$7 \oplus 2$	$5 \oplus 4$
$5 \oplus 4$	$2 \oplus 7$

★ ★ ★ ★ ★

9×7	$2 \oplus 4$
$4 \ominus 2$	$9 \oplus 7$
$2 \oplus 4$	$7 \oplus 9$
$7 \ominus 9$	$4 \oplus 2$

★ ★ ★ ★ ★
 by Tyler 1 of 4 solutions

6×4	1×0
$0 \oplus 6$	$4 \oplus 1$
$1 \oplus 0$	$6 \oplus 4$
$4 \oplus 1$	$0 \oplus 6$

★ ★ ★ ★ ★

5×2	0×1
1×5	2×0
$2 \oplus 0$	$1 \oplus 5$
$0 \oplus 1$	5×2

★ ★ ★ ★ ★
 digits: 0, 1, 2, 5

$0 \oplus 1$	$9 \oplus 8$
$9 \oplus 8$	$0 \oplus 1$
$8 \oplus 0$	$1 \oplus 9$
$1 \oplus 9$	$8 \oplus 0$

★ ★ ★ ★ ★

$4 \div 8$	$3 \div 2$
$2 \div 3$	$8 \div 4$
$8 \div 4$	$2 \div 3$
$3 \oplus 2$	$4 \oplus 8$

★ ★ ★ ★ ★

4×2	$1 \div 3$
$2 \div 1$	$3 \div 4$
1×3	4×2
3×4	$2 \oplus 1$

★ ★ ★ ★ ★
 by Danielle

5×2	3×4
4×5	$2 \oplus 3$
$2 \oplus 3$	$4 \oplus 5$
$3 \div 4$	5×2

★ ★ ★ ★ ★
 digits: 2, 3, 4, 5

4×3	$2 \div 8$
$2 \div 8$	3×4
$3 \div 2$	$8 \div 4$
8×4	$3 \oplus 2$

★ ★ ★ ★ ★
 by Lily

1×2	5×4
5×1	4×2
2×4	1×5
4×5	$2 \oplus 1$

★ ★ ★ ★ ★

$2 \oplus 3$	1×9
9×1	3×2
$1 \oplus 9$	2×3
3×2	$9 \oplus 1$

★ ★ ★ ★ ★

208	5	2	2	4	75	6	92	1	+	9	
	×			÷							
	4	69	5	2	9	+	6			1	
			+								
	6	4	4	5	−	1	18	9	×	2	
11	2	+	9	4	1	÷	4	32	5	×	6
20	1	18	6	×	9	10	5	+	2	41	4
					−			×			−
	9	+	1		6		2		4		5

☆☆☆☆☆
by William and Simon

31	3	1	51	5	120	8	210	7	0			
	−			−		×			×			
	0	7	×	8		1	5		3			
21	7	×	3	0	1	×	0	40	8	×	5	
13	5	+	8	3	0	+	3	8	1	+	7	
48	1	+	5	4	3		7	371	8	0	+	8
	×				−		×			×		
	8				0	7	5	3				1

☆☆☆☆☆
by Genevieve, Rhys, Elias & Saskia

7	1	2	9	0	3			
			+					
	9	0	3	2	1			
5	3	90	1	0	×	9	1	2
	+							
	2	273	9	1	×	3		0
								−
6	0	3	×	2		1		9

☆☆☆☆☆
flip the upper two rows for the 2nd solution