

# Tribulation-A

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9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

**Games to Increase  
Mathematical Fluency  
with Basic Facts  
and  
Different Representations  
of Numbers**

# Tribulation-A

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

<input type="text"/>	<b>X</b>	<input type="text"/>	<b>+</b>	<input type="text"/>	<b>=</b>	<b>TARGET NUMBER</b> <input type="text"/>
<input type="text"/>	<b>X</b>	<input type="text"/>	<b>-</b>	<input type="text"/>		

# Tribulation-A

NOTE: 3 numbers must be in straight line: vertical, horizontal or diagonal

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Each sequence of three numbers produces four target numbers.

$$\boxed{9} \times \boxed{2} + \boxed{6} = \boxed{24}$$

$$\boxed{9} \times \boxed{2} - \boxed{6} = \boxed{12}$$

$$\boxed{6} \times \boxed{2} + \boxed{9} = \boxed{21}$$

$$\boxed{6} \times \boxed{2} - \boxed{9} = \boxed{3}$$

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9	4	8	5	2	6	1	3
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2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Each sequence of three numbers produces four target numbers.

<input type="text"/>	<b>X</b>	<input type="text"/>	<b>+</b>	<input type="text"/>	<b>=</b>	<input type="text"/>
<input type="text"/>	<b>X</b>	<input type="text"/>	<b>-</b>	<input type="text"/>	<b>=</b>	<input type="text"/>
<input type="text"/>	<b>X</b>	<input type="text"/>	<b>+</b>	<input type="text"/>	<b>=</b>	<input type="text"/>
<input type="text"/>	<b>X</b>	<input type="text"/>	<b>-</b>	<input type="text"/>	<b>=</b>	<input type="text"/>

# Tribulation-A1

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Find expressions to make these target numbers:

**28**

**68**

**57**

**49**

**12**

**36**

# Tribulation-A

## Target Practice

**TARGET  
25  
NUMBER**

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Mathematical Expression	Coordinates

Mathematical Expression	Coordinates

# Tribulation-A1-Answer Key

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Find expressions to make these target numbers:

**28**  $5 \times 5 + 3$   
 $4 \times 7 + 1$

**68**  $8 \times 9 - 4$   
 $9 \times 7 + 5$

**57**  $9 \times 6 + 3$   
 $7 \times 9 - 6$   
 $6 \times 9 + 3$

**49**  $6 \times 9 - 5$

**12**  $5 \times 2 + 2$   
 $8 \times 2 - 4$

**36**  $5 \times 8 - 4$

# Tribulation-A

## Target Practice Answers

**TARGET**  
**25**  
**NUMBER**

9	4	8	5	2	6	1	3
3	8	4	1	2	7	5	6
2	3	7	6	5	4	9	8
7	6	2	4	8	5	3	9
6	9	3	7	4	2	8	1
1	5	6	2	9	3	4	7
5	7	9	3	1	8	2	4
4	1	5	8	7	9	6	2

Mathematical Expression	Coordinates
$7 \times 3 + 4$	(1,5) ↗
$4 \times 6 + 1$	(4,5) ↑
$3 \times 7 + 4$	(3,4) →
$9 \times 3 - 2$	(1,8) ↓
$7 \times 4 - 3$	(8,3) ←
$8 \times 4 - 7$	(3,8) ↓
$3 \times 9 - 2$	(4,2) ↗
$8 \times 3 + 1$	(7,4) ↘
$9 \times 2 + 7$	(6,1) ↗