



Learn a new puzzle

Multiplication Grid

Find the missing factors. Then fill every square.

Trick: **Common factor**

1

×		11
	42	66
7		77

Where row 7 meets column 11: $7 \times 11 = 77$.

2

×		11
6	42	66
7		77

42 and 66 share a row.
Only 6 goes into both: $42 = 6 \times 7$, $66 = 6 \times 11$.

3

×	7	11
6	42	66
7		77

Now divide: $42 \div 6 = 7$.
Then fill every square.

Try it

×	4				10
5		45			
					100
	44				
3			21		
	36			72	

The answer is with the other answers.

Talk about it: Ask: Which number from 2 to 12 goes into both? How do you know?



- 1 **Multiplication Grid** Find the missing factors. Then fill every square.



×		3	4		10
6	48				60
			28		
		30		20	
9				18	
4					

- 2 **Multiplication Grid** Find the missing factors. Then fill every square.



×	7	6		10	
2					
5					
10		60			
		18	33	30	27
	63				



3 Multiplication Grid Find the missing factors. Then fill every square.



×	5				9
7	35				
12		96		144	
		48			
2					
			21		27

4 Multiplication Grid Find the missing factors. Then fill every square.



×			11	5	3
3					9
		16	88		
					27
4	24				
					21



5 Multiplication Grid Find the missing factors. Then fill every square.



×					
				56	40
			40		50
	12				
				84	
	18	33			

6 Multiplication Grid Find the missing factors. Then fill every square.



×					
		20			
				28	
		10			14
	72	60	36		
		25			



7

Multiplication Grid Find the missing factors. Then fill every square.



×					
		40			
	30		36	27	
					30
		64			40
				36	



8

Multiplication Grid Find the missing factors. Then fill every square.



×						
	22					
	4	16				
		56			70	
		64				
				66		18
			108	99		



9

Multiplication Grid Find the missing factors. Then fill every square.



×						
				110		
	16				36	44
		6	9			
						77
		12				
		16	24			



10 Multiplication Grid Find the missing factors. Then fill every square.



×						
			16			
						12
		66	48			
	60			35	25	
				63		
						9



Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn • Multiplication Grid

×	4	9	7	8	10
5	20	45	35	40	50
10	40	90	70	80	100
11	44	99	77	88	110
3	12	27	21	24	30
9	36	81	63	72	90

#1

×	8	3	4	2	10
6	48	18	24	12	60
7	56	21	28	14	70
10	80	30	40	20	100
9	72	27	36	18	90
4	32	12	16	8	40

The missing factor in row 2 is $28 \div 4 = 7$. Then divide to find each factor, and multiply to fill every square.

#2

×	7	6	11	10	9
2	14	12	22	20	18
5	35	30	55	50	45
10	70	60	110	100	90
3	21	18	33	30	27
9	63	54	99	90	81

The missing factor in row 4 is $18 \div 6 = 3$. Then divide to find each factor, and multiply to fill every square.

#3

×	5	8	7	12	9
7	35	56	49	84	63
12	60	96	84	144	108
6	30	48	42	72	54
2	10	16	14	24	18
3	15	24	21	36	27

The missing factor in row 5 is $27 \div 9 = 3$. Then divide to find each factor, and multiply to fill every square.

#4

×	6	2	11	5	3
3	18	6	33	15	9
8	48	16	88	40	24
9	54	18	99	45	27
4	24	8	44	20	12
7	42	14	77	35	21

The missing factor in row 2 is $88 \div 11 = 8$. Then divide to find each factor, and multiply to fill every square.

#5

×	6	11	4	7	5
8	48	88	32	56	40
10	60	110	40	70	50
2	12	22	8	14	10
12	72	132	48	84	60
3	18	33	12	21	15

Row 1 holds 56 and 40: only 8 fits ($56 = 8 \times 7$, $40 = 8 \times 5$). Then divide to find each factor, and multiply to fill every square.

#6

×	6	5	3	4	7
4	24	20	12	16	28
7	42	35	21	28	49
2	12	10	6	8	14
12	72	60	36	48	84
5	30	25	15	20	35

Row 3 holds 10 and 14: only 2 fits ($10 = 2 \times 5$, $14 = 2 \times 7$). Then divide to find each factor, and multiply to fill every square.

#7

×	10	8	12	9	5
5	50	40	60	45	25
3	30	24	36	27	15
6	60	48	72	54	30
8	80	64	96	72	40
4	40	32	48	36	20

Row 2 holds 30, 36 and 27: only 3 fits ($30 = 3 \times 10$, $36 = 3 \times 12$, $27 = 3 \times 9$). Then divide to find each factor, and multiply to fill every square.

#8

×	2	8	12	11	10	3
11	22	88	132	121	110	33
2	4	16	24	22	20	6
7	14	56	84	77	70	21
8	16	64	96	88	80	24
6	12	48	72	66	60	18
9	18	72	108	99	90	27

Row 2 holds 4 and 16: only 2 fits ($4 = 2 \times 2$, $16 = 2 \times 8$). Then divide to find each factor, and multiply to fill every square.



Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9

×	4	2	3	10	9	11
11	44	22	33	110	99	121
4	16	8	12	40	36	44
3	12	6	9	30	27	33
7	28	14	21	70	63	77
6	24	12	18	60	54	66
8	32	16	24	80	72	88

Row 2 holds 16, 36 and 44: only 4 fits ($16 = 4 \times 4$, $36 = 4 \times 9$, $44 = 4 \times 11$). Then divide to find each factor, and multiply to fill every square.

#10

×	12	11	8	7	5	3
2	24	22	16	14	10	6
4	48	44	32	28	20	12
6	72	66	48	42	30	18
5	60	55	40	35	25	15
9	108	99	72	63	45	27
3	36	33	24	21	15	9

Row 3 holds 66 and 48: only 6 fits ($66 = 6 \times 11$, $48 = 6 \times 8$). Then divide to find each factor, and multiply to fill every square.