



Learn a new puzzle

Cross-Number

One digit in each white square. Every answer fits its clues.

Trick: **Share the digits**

1

¹ 3	6	² 1
³		

1 Across: a square number, digits add to 10. Only 361.

2

¹ 3	6	² 1
2		
³ 4		

1 Down shares the 3. A square that starts with 3 and is a multiple of 6: 324.

3

¹ 3	6	² 1
2		4
³ 4	4	4

2 Down starts with 1: 144. So 3 Across is 4_4: 444.

Try it

¹		²
³		

Across

- 1 Its digits add to 13.
More than 264 and less than 281.
- 3 Its digits add to 14.
It ends in 8.

Down

- 1 A multiple of 9.
It ends in 1.
- 2 A multiple of 8.
More than 551 and less than 581.

The answer is with the other answers.

Talk about it: Ask: What is the difference between a digit and a number?

**1****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2	
		3	4
5	6		
	7		

Across

- 1** Its digits add to 6.
More than 108 and less than 130.
- 3** 3×5 .
- 5** Its digits add to 13.
It starts with 8.
- 7** Its digits add to 14.
More than 316 and less than 332.

Down

- 1** Its digits add to 16.
More than 177 and less than 184.
- 2** Its digits add to 5.
It ends in 1.
- 4** Its digits add to 23.
It starts with 5.
- 6** Its digits add to 8.
It starts with 5.

**2****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1			2
		3	
4	5		
	6		

Across

- 1** 4×5 .
- 3** Its digits add to 16.
It starts with 9.
- 4** Its digits add to 22.
More than 874 and less than 894.
- 6** 7×11 .

Down

- 1** Its digits add to 16.
More than 240 and less than 269.
- 2** Its digits add to 11.
It ends in 7.
- 3** Its digits add to 23.
More than 962 and less than 979.
- 5** 7×11 .

**3****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue. ☆

1		2	
		3	4
5	6		
	7		

Across

- 1** Its digits go up from left to right.
More than 444 and less than 458.
- 3** 9×9 .
- 5** Its digits add to 6.
It ends in 1.
- 7** Its digits add to 13.
It ends in 4.

Down

- 1** Its digits add to 15.
More than 449 and less than 468.
- 2** Its digits add to 15.
It ends in 8.
- 4** 3×6 .
- 6** Its digits add to 10.
It starts with 1.

**4****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1	2		3
	4	5	
6		7	
8			

Across

- 1** 7×7 .
- 4** It reads the same both ways.
More than 881 and less than 889.
- 7** Its digits add to 17.
More than 96 and less than 100.
- 8** Its digits add to 14.
More than 742 and less than 762.

Down

- 2** Its digits go down from left to right.
It ends in 8.
- 3** Its digits add to 24.
All its digits are the same.
- 5** Its digits add to 18.
It ends in 1.
- 6** Its digits add to 16.
It ends in 7.

**5****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2		3
4	5			
	6		7	
8			9	
		10		

Across

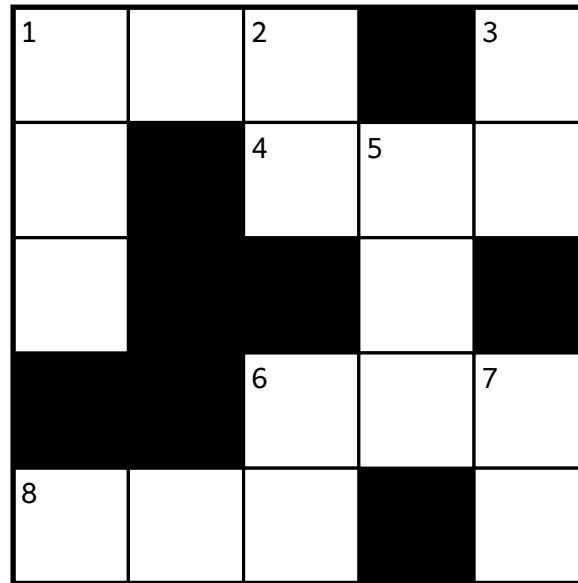
- 2** A multiple of 3.
More than 578 and less than 604.
- 4** Its digits add to 7.
It ends in 2.
- 6** Its digits add to 20.
It ends in 9.
- 8** Its digits add to 12.
Its digits go up from left to right.
- 9** Its digits add to 11.
It ends in 5.
- 10** Its digits add to 14.
It ends in 5.

Down

- 1** Its digits add to 10.
- 2** Its digits add to 10.
More than 510 and less than 535.
- 3** A multiple of 6.
It starts with 2.
- 5** Its digits add to 19.
More than 469 and less than 497.
- 7** Its digits add to 20.
It ends in 5.
- 8** Its digits add to 5.

**6****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.

**Across**

- 1** Its digits add to 9.
Its digits go up from left to right.
- 4** It reads the same both ways.
It ends in 7.
- 6** Its digits add to 22.
It reads the same both ways.
- 8** Its digits add to 15.
More than 260 and less than 273.

Down

- 1** Its digits add to 10.
It ends in 3.
- 2** Its digits add to 13.
- 3** It reads the same both ways.
All its digits are the same.
- 5** Its digits go down from left to right.
More than 870 and less than 882.
- 6** Its digits go down from left to right.
More than 89 and less than 100.
- 7** A multiple of 3.
Its digits add to 12.

**7****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2		3
4	5			
			6	
7				
		8		

Across

- 2** Its digits add to 8.
It reads the same both ways.
- 4** Its digits add to 19.
More than 553 and less than 574.
- 6** Its digits go down from left to right.
More than 76 and less than 82.
- 7** Its digits add to 9.
More than 63 and less than 80.
- 8** Its digits add to 13.
It ends in 8.

Down

- 1** A square number.
A multiple of 5.
- 2** Its digits add to 10.
Its digits go up from left to right.
- 3** A multiple of 8.
Its digits add to 3.
- 5** Its digits add to 14.
It starts with 5.
- 6** Its digits add to 13.
It ends in 4.
- 7** Its digits go down from left to right.
It ends in 6.

**8****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2	3	
4	5		6	
	7	8		
9				10
		11		

Across

- 2** Its digits add to 13.
- 4** A multiple of 4.
A multiple of 6.
- 6** Its digits add to 13.
More than 55 and less than 65.
- 7** Its digits add to 18.
It starts with 9.
- 9** Its digits add to 10.
It starts with 6.
- 11** A multiple of 7.
More than 518 and less than 530.

Down

- 1** Its digits add to 14.
More than 56 and less than 82.
- 3** Its digits add to 10.
It starts with 4.
- 5** Its digits add to 14.
It starts with 4.
- 8** Its digits add to 16.
It starts with 8.
- 9** A square number.
Its digits go down from left to right.
- 10** Its digits go down from left to right.
It starts with 8.

**9****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2		3
4				
		5	6	
7	8		9	
	10			

Across

- 2** Its digits add to 13.
It ends in 3.
- 4** Its digits add to 17.
More than 271 and less than 291.
- 5** A multiple of 7.
More than 41 and less than 60.
- 7** A multiple of 5.
Its digits add to 14.
- 9** Its digits add to 7.
An even number.
- 10** Its digits add to 15.
It ends in 9.

Down

- 1** A multiple of 6.
It starts with 4.
- 2** Its digits add to 16.
More than 480 and less than 487.
- 3** It reads the same both ways.
An odd number.
- 6** Its digits add to 16.
It starts with 2.
- 8** Its digits go down from left to right.
It ends in 2.

**10****Cross-Number**

Write one digit in each white square. Every answer is a number that fits its clue.



1		2		3
4	5			
	6		7	
8			9	
		10		

Across

- 2** A multiple of 8.
Its digits add to 21.
- 4** Its digits add to 5.
More than 400 and less than 412.
- 6** Its digits add to 11.
More than 166 and less than 185.
- 8** A multiple of 3.
An odd number.
- 9** Its digits add to 5.
It ends in 4.
- 10** A multiple of 7.

Down

- 1** It reads the same both ways.
An even number.
- 2** Its digits add to 13.
It ends in 7.
- 3** A multiple of 7.
An odd number.
- 5** 8 Down + 87.
- 7** Its digits add to 7.
More than 289 and less than 316.
- 8** Its digits go down from left to right.
It starts with 3.



Answers

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

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1	2	3
4	6	5
6		6
1	5	8

Across

- 1 Its digits add to 13.
More than 264 and less than 281.
3 Its digits add to 14.
It ends in 8.

Down

- 1 A multiple of 9.
It ends in 1.
2 A multiple of 8.
More than 551 and less than 581.

#1

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

1 Down is 178: its own clues allow nothing else. The digit 1 Across shares with 2 Down leaves only 114.

#2

1	2	0		2	4
6			3	9	7
4	8	5	7	7	
	6	7	7		

1 Across is 20: its own clues allow nothing else. The digit 1 Down shares with 4 Across leaves only 268.

#3

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

2 Down is 78: its own clues allow nothing else. The digit 1 Across shares with 2 Down leaves only 457.

#4

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

1 Across is 49: its own clues allow nothing else. The digit 5 Down shares with 4 Across leaves only 891.

#5

1	9		2	5	8	3	2
4	1	5	4	2			4
	6	8	3	7	9		
8	5	7		9	6	5	
	0		10	9	5		

10 Across is 95: its own clues allow nothing else. The digit 2 Across shares with 3 Down leaves only 582.

#6

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

8 Across is 267: its own clues allow nothing else. The digit 2 Down shares with 4 Across leaves only 67.

#7

1	2		2	1	6	3	1
4	5	5	9			2	
	7			6	8	0	
7	7	2			1		
6		8	1	4	8		

1 Down is 25: its own clues allow nothing else. The digit 2 Across shares with 3 Down leaves only 161.

#8

1	6		2	9	3		
4	8	5	4		6	5	8
	7	9	8	1			
9	6	1	3		10	8	
4		11	5	2	5		

11 Across is 525: its own clues allow nothing else. The digit 2 Across shares with 3 Down leaves only 94.

#9

1	4		2	4	6	3	
4	2	7	8			3	
			5	4	2		
7	9	8	5	9	5	2	
		10	2	4	9		

2 Down is 484: its own clues allow nothing else. The digit 2 Across shares with 2 Down leaves only 463.

#10

1	4		2	6	9	3	
4	4	1	0			3	
		6	1	7	3		
8	3	9		9	1	4	
2			10	6	3		

9 Across is 14: its own clues allow nothing else. The digit 2 Down shares with 2 Across leaves only 607. 5 Down is 8 Down + 87 = 119.