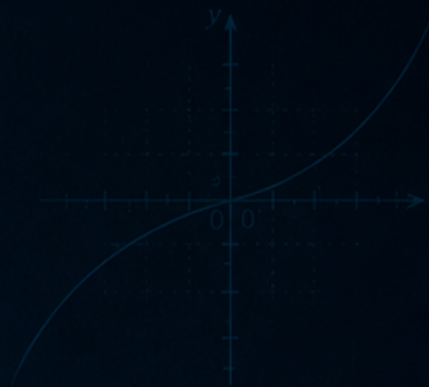
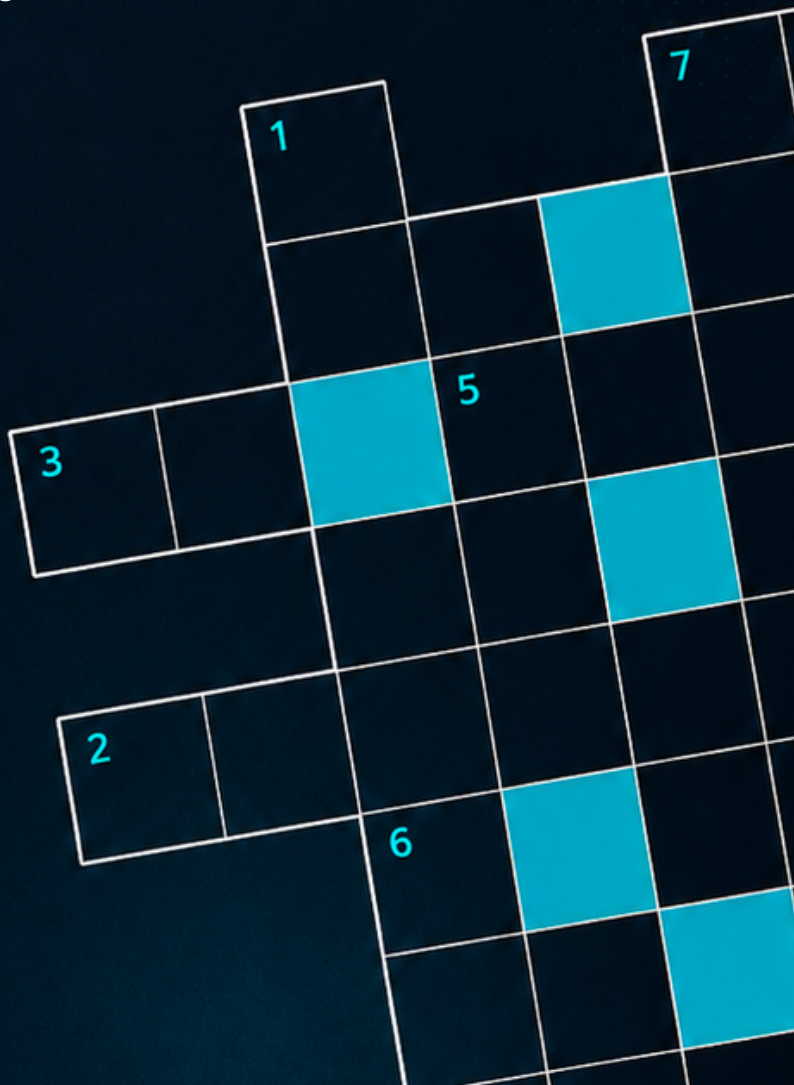




Countless Riddles

Crossnumbers Starter pack

3 printable BODMAS/PEMDAS puzzles
Answer key included



Welcome to the CountlessRiddles Starter Pack

This free pack includes 3 BODMAS/PEMDAS crossnumber puzzles:

- Easy
- Medium
- Hard

How it works:

1. Choose a puzzle.
2. Solve each expression using the correct order of operations.
3. Write the answer into the matching numbered spaces in the grid.
4. Across answers go left to right.
5. Down answers go top to bottom.
6. Each digit gets its own square.
7. Check the solution pages only when you are ready.

Secret Word Challenge

After solving each puzzle, you can reveal a hidden word. Some cells in the grid are marked with secret markers. Copy the digits from those marked cells in order. Every two digits form one letter code:

01 = A, 02 = B, 03 = C ... 26 = Z

Example: 03 15 04 05 = CODE

The secret word is your final reward for completing the puzzle.

BODMAS / PEMDAS reminder:

- B/P - Brackets or Parentheses
- O/E - Orders or Exponents
- D/M - Division and Multiplication, from left to right
- A/S - Addition and Subtraction, from left to right

Tip: Every answer is a whole number. Solve carefully before filling the grid.

BODMAS Crossnumber #1

Difficulty: Easy

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

Secret Word Challenge

Read the cyan markers in order. Every two digits make one letter.

Cyan numbers = secret word markers.

Digits: _ _ _ _ _

Word: _ _ _ _

Across

- 1. $126 \div 2 + 10$
- 3. $(86 + 15) \times 5$
- 5. $103 \times 8 - 13$
- 6. $3 \times 20 + 29$
- 8. $118 \times 6 - 19$
- 9. $109 - 9 \times 9$
- 11. $4 \times 199 + 24$

Down

- 2. $(126 + 3) \times 3$
- 3. $42 \div 2 + 30$
- 4. $105 \times 5 - 16$
- 6. $77 \times 12 - 32$
- 7. $94 \times 8 - 24$
- 8. $(105 + 5) \times 6$
- 10. $(133 + 37) \div 2$

BODMAS Crossnumber #2

Difficulty: Medium

1				2	3		4
3						1	12
			5				
6	7				8		7
8			10	11			
	12	13				14	
15			9	10		5	
			19	20			
21				22			
2				6		11	

Secret Word Challenge

Read the cyan markers in order. Every two digits make one letter.

Cyan numbers = secret word markers.

Digits: _ _ _ _ _

Word: _ _ _ _ _

Across

- 1. $(9 \times 12 + 4) \div 8 + 9$
- 2. $(140 + 26) \times 21 + 59 - 30$
- 6. $(18^2 + 173) \times 13 + 35$
- 8. $(115 \times 22 + 8) \div 6 + 19$
- 9. $(11 + 9) \times 4 + 53 - 35$
- 10. $23^2 + 26 \times 17 - 255$
- 12. $13^2 + 13 \times 14 - 315$
- 15. $(161 + 228) \times (24 - 5) + 21$
- 17. $(85 \times 22 + 10) \div 10 + 41$
- 19. $(8 + 15) \times (7 - 5) + 6$
- 21. $(15 + 61) \times 9 + 21 - 39$
- 22. $(24^2 + 202) \times 8 + 80$

Down

- 1. $(9 + 193) \times 10 + 60 - 11$
- 3. $(166 + 141) \times (45 - 26) + 13$
- 4. $(176 + 107) \times 21 + 30 - 52$
- 5. $18^2 + 26 \times 12 - 169$
- 7. $(239 + 241) \times 10 + 54 - 20$
- 11. $12^2 + 20 \times 9 - 313$
- 13. $(11 \times 13 + 4) \div 7 + 40$
- 14. $(8 + 16) \times 4 + 36 - 60$
- 15. $(6^2 + 34) \times 10 + 46$
- 16. $(10 \times 15 + 4) \div 11 + 11$
- 18. $(26 + 63) \times (35 - 24) + 5$
- 20. $7^2 + 4 \times 17 - 91$

BODMAS Crossnumber #3

Difficulty: Hard

			1	2	3				
			12						
	4	5					4		
	6								
7					8	9	10	11	12
	2		11						14
13					14		16		1
15			16	17		18			
			7			8			15
			19		20		21		
	22	23					24		
									5
	25								
	10			9					
	26								
	6	13							

Secret Word Challenge

Read the cyan markers in order. Every two digits make one letter.

Cyan numbers = secret word markers.

Digits: _____

Word: _____

Hard puzzle note: solve on this page, then use the next page for the full Across and Down clue lists.

Hard Puzzle Clues

Across

1. $((147 + 25) \times 37 - 15^2) \div 7 + 90$
4. $(6! + 18^2 \times 13 - 93) \times 15 + 43$
6. $(5! + 18^2 \times 19 - 322) \times 16 + 58$
7. $((215 + 114) \times 18 - 9^2) \div 3 + 73$
8. $(4! + 17^2 \times 19 - 188) \times 16 + 42$
13. $((38 + 34) \times (15 - 10) + 5!) \times 2 - 88$
14. $(6! + 17^2 \times 18 - 537) \times 15 + 17$
15. $(6! + 16^2 \times 18 - 183) \times 13 + 33$
18. $((206 + 57) \times 38 - 12^2) \div 2 + 55$
19. $((8 + 13) \times (9 - 5) + 5!) \times 4 - 30$
21. $(4! + 11^2 \times 4 - 432) \times 9 + 71$
22. $((207 + 146) \times (24 - 12) + 5!) \times 12 - 52$
24. $((11 + 24) \times (11 - 7) + 3!) \times 4 - 74$
25. $((71 + 104) \times (18 - 5) + 5!) \times 7 - 49$
26. $(6! + 18^2 \times 20 - 683) \times 14 + 54$

Down

1. $(5! + 16^2 \times 8 - 250) \times 5 + 40$
2. $((22 + 10) \times (17 - 10) + 5!) \times 2 - 66$
3. $(6! + 18^2 \times 18 - 29) \times 12 + 12$
4. $(4! + 18^2 \times 20 - 422) \times 13 + 10$
5. $(5! + 18^2 \times 12 - 405) \times 7 + 8$
7. $(15^2 + 6^3 - 361) \times 3 + 46$
9. $((25 + 9) \times (17 - 9) + 4!) \times 2 - 88$
10. $((219 + 23) \times (17 - 3) + 5!) \times 8 - 89$
11. $(6! + 17^2 \times 16 - 22) \times 15 + 21$
12. $((133 + 117) \times (21 - 9) + 3!) \times 14 - 34$
16. $((90 + 74) \times (19 - 11) + 4!) \times 13 - 96$
17. $(4! + 18^2 \times 18 - 344) \times 16 + 27$
20. $((23 + 8) \times (17 - 3) + 5!) \times 11 - 32$
22. $((39 + 13) \times (9 - 4) + 4!) \times 2 - 49$
23. $(17^2 + 4^3 - 291) \times 3 + 75$

Working Space - Hard Puzzle

Use this page to write down your calculations before filling the grid.

Clue	Working

Solution: BODMAS Crossnumber #1

Difficulty: Easy

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

Answer Key

Across

- 1. 73
- 3. 505
- 5. 811
- 6. 89
- 8. 689
- 9. 28
- 11. 820

Down

- 2. 387
- 3. 51
- 4. 509
- 6. 892
- 7. 728
- 8. 660
- 10. 85

Secret Word

Secret digits: 13 01 20 08

Letter code:

- 13 = M
- 01 = A
- 20 = T
- 08 = H

Final word:

MATH

Solution: BODMAS Crossnumber #2

Difficulty: Medium

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

Answer Key

Across

1. 23
2. 3515
6. 6496
8. 442
9. 98
10. 716
12. 36
15. 7412
17. 229
19. 52
21. 666
22. 6304

Down

1. 2069
3. 5846
4. 5921
5. 467
7. 4834
11. 11
13. 61
14. 72
15. 746
16. 25
18. 984
20. 26

Secret Word Reveal - Medium Puzzle

You solved the puzzle. Now decode the final word.

Secret Word

Secret digits: 16 21 26 26 12 05

Letter code:

16 = P

21 = U

26 = Z

26 = Z

12 = L

05 = E

Final word:

PUZZLE

Solution: BODMAS Crossnumber #3

Difficulty: Hard

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

Use the completed grid to check your answers.

Answer Key — BODMAS Crossnumber #3

Difficulty: **Hard**

Answer Key

Across

- 1. 967
- 4. 72628
- 6. 95322
- 7. 2020
- 8. 85274
- 13. 872
- 14. 80792
- 15. 66918
- 18. 4980
- 19. 786
- 21. 755
- 22. 52220
- 24. 510
- 25. 16716
- 26. 91292

Down

- 1. 9630
- 2. 622
- 3. 78288
- 4. 79076
- 5. 25229
- 7. 286
- 9. 504
- 10. 27975
- 11. 79851
- 12. 42050
- 16. 17272
- 17. 88219
- 20. 6062
- 22. 519
- 23. 261

Use these answers to check your grid before decoding the final word.

Secret Word Reveal - Hard Puzzle

You solved the hardest puzzle. Now decode the final word.

Secret Word

Secret digits: 20 08 09 14 11 09 14 07

Letter code:

20 = T

08 = H

09 = I

14 = N

11 = K

09 = I

14 = N

07 = G

Final word:

THINKING

Worked Examples - Hard Puzzle

Follow the step order and compare with your own workings.

Across 1: $((147 + 25) \times 37 - 15^2) \div 7 + 90$

Step 1 (Addition): $147 + 25 = 172$

Step 2 (Multiplication): $172 \times 37 = 6364$

Step 3 (Power): $15^2 = 225$

Step 4 (Subtraction): $6364 - 225 = 6139$

Step 5 (Division): $6139 \div 7 = 877$

Step 6 (Addition): $877 + 90 = 967$

Answer: 967

Across 4: $(6! + 18^2 \times 13 - 93) \times 15 + 43$

Step 1 (Factorial): $6! = 720$

Step 2 (Power): $18^2 = 324$

Step 3 (Multiplication): $324 \times 13 = 4212$

Step 4 (Addition): $720 + 4212 = 4932$

Step 5 (Subtraction): $4932 - 93 = 4839$

Step 6 (Multiplication): $4839 \times 15 = 72585$

Step 7 (Addition): $72585 + 43 = 72628$

Answer: 72628

Worked Examples - Hard Puzzle (continued)

Use this solved example to check your BODMAS step order.

Across 6: $(5! + 18^2 \times 19 - 322) \times 16 + 58$

Step 1 (Factorial): $5! = 120$

Step 2 (Power): $18^2 = 324$

Step 3 (Multiplication): $324 \times 19 = 6156$

Step 4 (Addition): $120 + 6156 = 6276$

Step 5 (Subtraction): $6276 - 322 = 5954$

Step 6 (Multiplication): $5954 \times 16 = 95264$

Step 7 (Addition): $95264 + 58 = 95322$

Answer: 95322

How to use worked examples

Match your own intermediate steps against these examples before checking the full answer key.

Want more riddles?

Thanks for solving the CountlessRiddles Starter Pack. This free pack is just the beginning. More printable puzzle packs, daily riddles, and leaderboard challenges are being prepared.

What's coming next:

- More printable crossnumber packs
- Fresh math riddles and brain teasers
- Puzzle packs for different difficulty levels
- Leaderboard challenges in the future

Follow CountlessRiddles for new riddles, puzzle drops, and challenge updates.

Share this pack with someone who loves puzzles.