

PUZZLE FUN!

Mazes • Logic Puzzles • Bingo • Brain Teasers

Ages 11–13 • Middle School

THINK • SOLVE • REASON • HAVE FUN

A printable puzzle collection designed to build logical reasoning, flexible thinking, problem solving and confidence.

Includes: 12 printable puzzle activities • mazes • logic • bingo • brain teasers • answer key

1. Multiplication Maze

Instructions: Move up, down, left or right. Travel only through numbers that are multiples of 6, from START to FINISH.

START 12	18	7	11	13	17	19
5	24	30	9	21	23	29
3	15	36	42	45	47	31
2	14	20	48	54	55	37
4	16	22	27	60	66	41
8	10	25	33	72	78	43
1	6	35	39	49	84 FINISH	51

Write the numbers in your route: _____

2. Prime Number Maze

Instructions: Move only through prime numbers. No diagonal moves.

START 2	4	6	8	10	12	14
15	3	5	9	15	21	16
18	20	7	11	13	17	18
22	24	25	19	23	29	20
26	27	28	31	37	33	34
30	32	35	41	43	47	36
38	40	42	45	49	53 FINISH	54

Prime numbers have exactly two positive factors.

3. Seating Logic

Instructions: Five friends sit in seats 1–5. Use the clues to place them.

Friends: Ava • Ben • Chloe • Daniel • Emma

- 1. Ava sits immediately left of Ben.
- 2. Chloe is not at either end.
- 3. Emma sits to the right of Chloe.
- 4. Daniel sits at the left end.

Seats: 1 2 3 4 5

Names: _____

4. Mystery Activities

Instructions: Four students each choose a different activity and a different colour.

Students: Liam • Maya • Noah • Sofia

Activities: chess • coding • football • drawing

Colours: blue • green • red • yellow

Clues:

- 1. Maya chooses coding.
- 2. The football player likes green.
- 3. Liam chooses chess.
- 4. Noah does not like red or yellow.
- 5. Sofia chooses drawing.
- 6. The coding student likes blue.

Student	Activity	Colour
Liam	_____	_____
Maya	_____	_____
Noah	_____	_____
Sofia	_____	_____

5. Number Detective

Instructions: Find the three-digit mystery number.

- The hundreds digit is twice the tens digit.
- The ones digit is 3 more than the tens digit.
- The digits add to 12.

Mystery number: _____

6. Maths Bingo

Instructions: Choose any 9 answers from the answer bank and place them in the grid. A caller reads a calculation; cover the matching answer.

Answer bank: 12 • 18 • 24 • 30 • 36 • 42 • 48 • 54 • 60 • 66 • 72 • 81

	FREE	

Caller cards: 3×4 • 6×3 • 4×6 • 5×6 • 6×6 • 7×6 • 8×6 • 9×6 • 10×6 • 11×6 • 12×6 • 9×9

7. Brain Teaser Blast

Instructions: Solve carefully and show working where useful.

1. A number is multiplied by 3 and 5 is added. The result is 26. What is the number? _____
2. Half of a number is 18. What is the number? _____
3. A clock shows 3:45. What time is it 50 minutes later? _____
4. A rectangle is 12 cm long and 5 cm wide. What is its perimeter? _____
5. What comes next? 1, 4, 9, 16, 25, ____, ____

8. Think Sideways

Instructions: These questions reward careful reading.

1. If you overtake the person in second place, what position are you in? _____
2. A farmer has 12 sheep. All but 5 run away. How many remain? _____
3. You take 2 apples from a basket of 5. How many apples do you have? _____
4. A plane crashes on a border. Where do they bury the survivors? _____
5. Which is heavier: 1 kg of feathers or 1 kg of books? _____

9. Pattern Detective

Instructions: Find the rule and complete each sequence.

Sequence	Next terms
7,14,21,28, ____, ____, ____	_____, _____
96,84,72,60, ____, ____	_____, _____
3,6,12,24, ____, ____	_____, _____
2,5,10,17,26, ____	_____
64,32,16,8, ____, ____	_____, _____

10. Probability Challenge

Instructions: A bag contains 5 red, 3 blue and 2 green counters.

1. Which colour is most likely? _____
2. Which colour is least likely? _____
3. What is the probability of blue? _____
4. What is the probability of not green? _____
5. What is the probability of two reds in a row without replacement? _____

11. Number Grid Challenge

Instructions: Place 1–9 in the grid so every row, column and diagonal totals 15.

8		6
	5	
4		2

Magic total = _____

12. Ultimate Brain Challenge

Instructions: Solve all four.

1. I am a two-digit number, divisible by 3 and 5. My digits add to 9. What am I? _____
2. A number is multiplied by 4, then 6 is added. The result is 34. What is the number? _____
3. A rectangle has perimeter 30 cm. Its length is 9 cm. What is its width? _____
4. You have 24 cards. You give $\frac{1}{3}$ to a friend, then $\frac{1}{4}$ of the remaining cards to another friend. How many remain? _____

Score: _____ / 4

ANSWER KEY

1. **Multiplication Maze:** 12 → 18 → 24 → 30 → 36 → 42 → 48 → 54 → 60 → 66 → 72 → 78 → 84.
2. **Prime Maze:** 2 → 3 → 5 → 7 → 11 → 13 → 17 → 19 → 23 → 29 → 31 → 37 → 41 → 43 → 47 → 53.
3. **Seating Logic:** Daniel, Ava, Ben, Chloe, Emma. Seat 3 = Ben.
4. **Mystery Activities:** Liam = chess/yellow; Maya = coding/blue; Noah = football/green; Sofia = drawing/red.
5. **Number Detective:** 642.
6. **Maths Bingo:** Caller answers: 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 81.
7. **Brain Teaser Blast:** 7; 36; 4:35; 34 cm; 36, 49.
8. **Think Sideways:** second place; 5; 2; survivors are not buried; equal weight.
9. **Pattern Detective:** 35,42; 48,36; 48,96; 37; 4,2.

ANSWER KEY • CONTINUED

- 10. **Probability:** Red; green; $3/10$; $8/10$ ($4/5$); $2/9$.
- 11. **Number Grid:** 8 1 6 / 3 5 7 / 4 9 2. Magic total = 15.
- 12. **Ultimate Brain Challenge:** 45; 7; 6 cm; 12 cards.

PUZZLE MASTER

Awarded to: _____

for completing the Puzzle Fun Challenge!