

# **BRAIN GAMES**

## **LOGIC PUZZLES & BRAIN TEASERS**

Printable Critical Thinking Activities

Grades 2–4 • Ages 7–10

Name: \_\_\_\_\_

Teacher / Parent: \_\_\_\_\_

## 2. Odd One Out

Circle the word that does not belong in each group.

1. apple • banana • carrot • orange
2. triangle • square • circle • blue
3. lion • tiger • eagle • zebra
4. pencil • eraser • ruler • sandwich
5. Monday • Tuesday • June • Friday
6. bus • train • bicycle • pillow
7. red • green • seven • yellow
8. winter • summer • spring • banana

### 3. Number Patterns

Write the missing number in each pattern.

1. 2, 4, 6, \_\_, 10 Answer: \_\_\_\_\_

2. 5, 10, 15, \_\_, 25 Answer: \_\_\_\_\_

3. 30, 27, 24, \_\_, 18 Answer: \_\_\_\_\_

4. 3, 6, 12, \_\_, 48 Answer: \_\_\_\_\_

5. 1, 4, 7, \_\_, 13 Answer: \_\_\_\_\_

6. 100, 90, 80, \_\_, 60 Answer: \_\_\_\_\_

7. 7, 14, 21, \_\_, 35 Answer: \_\_\_\_\_

8. 64, 32, 16, \_\_, 4 Answer: \_\_\_\_\_

## 4. Symbol Patterns

Look at each pattern. What should come next? Choose A, B or C.

1. ● ▲ ● ▲ ● \_\_\_\_

A. ● B. ▲ C. ■

2. ■ ■ ■ ■ ■ \_\_\_\_

A. ■ B. ▲ C. ■

3. ★ ■ ★ ■ ★ \_\_\_\_

A. ■ B. ★ C. ■

4. ▲ ▲ ● ▲ ▲ \_\_\_\_

A. ● B. ▲ C. ■

5. ■ ■ ■ ■ ■ \_\_\_\_

A. ■ B. ■ C. ■

6. ◆ ◆ ■ ◆ ◆ \_\_\_\_

A. ◆ B. ■ C. ■

# 5. Word Search

Find these words: BRAIN, LOGIC, PUZZLE, THINK, SMART, CLUE, GAME, WORD.

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| B | R | A | I | N | X | C | L | U | E |
| Q | W | E | R | T | Y | L | O | G | I |
| P | U | Z | Z | L | E | A | B | C | D |
| T | H | I | N | K | M | N | O | P | E |
| S | M | A | R | T | F | G | H | I | J |
| G | A | M | E | K | L | M | N | O | P |
| W | O | R | D | Q | R | S | T | U | V |
| Z | X | C | V | B | N | M | A | S | D |
| L | K | J | H | G | F | D | S | A | Q |
| P | O | I | U | Y | T | R | E | W | Q |

Words may go across or down.

## 6. Word Scramble

Unscramble the letters to make a word.

1. NIBRA → \_\_\_\_\_

2. CILOG → \_\_\_\_\_

3. ZLZPUE → \_\_\_\_\_

4. MARTS → \_\_\_\_\_

5. UELC → \_\_\_\_\_

6. EMAG → \_\_\_\_\_

7. DROW → \_\_\_\_\_

8. NIKHT → \_\_\_\_\_

## 7. What Comes Next?

Choose the best answer.

1. 2, 5, 8, 11, ?

A. 12 B. 14 C. 15

2. 10, 20, 30, 40, ?

A. 45 B. 50 C. 60

3. 1, 2, 4, 8, ?

A. 10 B. 12 C. 16

4. 50, 45, 40, 35, ?

A. 30 B. 25 C. 20

5. A, C, E, G, ?

A. H B. I C. J

6. Monday, Wednesday, Friday, ?

A. Saturday B. Sunday C. Tuesday

## 8. Math Logic Puzzles

Use the clues to find the answer.

1. Sam has 3 more stickers than Mia. Mia has 5 stickers. How many stickers does Sam have?

Answer: \_\_\_\_\_

2. A box has 12 crayons. 4 are red and 3 are blue. The rest are green. How many are green?

Answer: \_\_\_\_\_

3. There are 4 children. Each has 2 apples. How many apples altogether?

Answer: \_\_\_\_\_

4. A number is greater than 20 and less than 30. It is even and its digits add to 8. What is it?

Answer: \_\_\_\_\_

5. Lena reads 5 pages each day for 6 days. How many pages does she read?

Answer: \_\_\_\_\_

## 9. 4×4 Sudoku

Fill the grid with 1, 2, 3 and 4. Each number appears once in every row, column and 2×2 box.

|   |   |   |   |
|---|---|---|---|
| 1 |   | 3 |   |
|   | 4 |   | 2 |
| 2 |   |   | 3 |
|   | 3 | 2 |   |

## 10. 6×6 Sudoku

Fill the grid with numbers 1–6. Each number appears once in every row and column.

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 |   | 3 |   | 5 |   |
|   | 5 |   | 2 |   | 4 |
| 2 |   |   | 5 | 6 |   |
|   | 3 | 5 |   | 1 |   |
| 5 |   | 1 | 6 |   | 3 |
|   | 6 |   | 1 | 4 |   |

## 11. Which One Is Different?

Three items follow a rule. One does not. Circle it.

1. 2,4,6,8 | 1,3,5,7 | 10,20,30,40 | 2,6,10,14

2.  $3 \times 2$  |  $4 \times 2$  |  $5 \times 2$  |  $5 + 5$

3. square | rectangle | triangle | cube

4. January | March | May | Monday

5. 16 | 25 | 36 | 42

## 12. Secret Code

Use A=1, B=2, C=3 ... Z=26 to decode the words.

1. 2-18-1-9-14 → \_\_\_\_\_

2. 12-15-7-9-3 → \_\_\_\_\_

3. 13-1-20-8 → \_\_\_\_\_

4. 7-1-13-5 → \_\_\_\_\_

5. 3-12-21-5 → \_\_\_\_\_

6. 16-21-26-26-12-5 → \_\_\_\_\_

# 13. Matching Logic Puzzle

Four children each chose a different favourite activity. Use the clues to match them.

Children: Ava, Ben, Chloe, Diego

Activities: Drawing, Reading, Puzzles, Chess

- Ava does not like Chess.
- Ben chose Reading.
- Chloe chose neither Drawing nor Chess.
- Diego does not like Reading.

| Child | Drawing | Reading | Puzzles | Chess |
|-------|---------|---------|---------|-------|
| Ava   | ■       | ■       | ■       | ■     |
| Ben   | ■       | ■       | ■       | ■     |
| Chloe | ■       | ■       | ■       | ■     |
| Diego | ■       | ■       | ■       | ■     |

## 14. Mini Mystery

Read the clues and solve the mystery.

### The Missing Lunchbox

Maya, Leo and Noor each brought a different lunch: a sandwich, fruit and pasta. One lunchbox was left in the classroom.

- Maya did not bring pasta.
- Leo brought the sandwich.
- Noor did not bring fruit.
- The missing lunchbox contained pasta.

Who left the lunchbox? \_\_\_\_\_

# 15. Route Challenge

Start at START and follow the arrows. Which path reaches FINISH?

|       |   |   |   |        |
|-------|---|---|---|--------|
| START | → | → | ↓ | X      |
| X     | X | → | ↓ | X      |
| →     | → | → | ↓ | X      |
| X     | X | X | → | →      |
| X     | X | X | X | FINISH |

Write the direction sequence: \_\_\_\_\_

## 16. Riddle Time

Read each riddle and write the answer.

1. I have hands but cannot clap. What am I?

Answer: \_\_\_\_\_

2. I have keys but cannot open doors. What am I?

Answer: \_\_\_\_\_

3. I get wetter as I dry you. What am I?

Answer: \_\_\_\_\_

4. I have a face and two hands but no arms. What am I?

Answer: \_\_\_\_\_

5. I am full of holes but I can hold water. What am I?

Answer: \_\_\_\_\_

6. I can be cracked, made, told and played. What am I?

Answer: \_\_\_\_\_

## 17. Mixed Brain Challenge

Try all five challenges.

1. Find the odd number: 12, 18, 24, 31, 36.

Answer: \_\_\_\_\_

2. What is half of 18?

Answer: \_\_\_\_\_

3. If CAT becomes DBU, what does DOG become?

Answer: \_\_\_\_\_

4. Which is heavier: 1 kg of feathers or 1 kg of rocks?

Answer: \_\_\_\_\_

5. Complete: 9, 18, 27, \_\_, 45.

Answer: \_\_\_\_\_

## 18. Challenge Zone

Can you solve these without help?

1. A farmer has 10 sheep. All but 3 run away. How many are left?

Answer: \_\_\_\_\_

2. Which number does not belong? 4, 8, 12, 15, 20.

Answer: \_\_\_\_\_

3. You have 3 red socks and 3 blue socks in a drawer. Without looking, what is the smallest number of socks you must take to guarantee a matching pair?

Answer: \_\_\_\_\_

4. Arrange these from smallest to largest: 0.5, 0.05, 0.15, 0.9.

Answer: \_\_\_\_\_

5. If today is Tuesday, what day will it be 10 days from now?

Answer: \_\_\_\_\_

## 19. Answer Key

Answers for pages 2–18.

2 Odd One Out: carrot; blue; eagle; sandwich; June; pillow; seven; banana.

3 Number Patterns: 8, 20, 21, 24, 10, 70, 28, 8.

4 Symbol Patterns: B, A, A, A, B, B.

5 Word Search: BRAIN, CLUE, LOGIC, PUZZLE, THINK, SMART, GAME, WORD.

6 Word Scramble: BRAIN, LOGIC, PUZZLE, SMART, CLUE, GAME, WORD, THINK.

7 What Comes Next: B, B, C, A, B, B.

8 Math Logic: 8; 5; 8; 26; 30.

9 4×4 Sudoku: 1 2 3 4 / 3 4 1 2 / 2 1 4 3 / 4 3 2 1.

10 6×6 Sudoku: complete using row and column constraints.

11 Which One Is Different: 1) 1,3,5,7 2) 5+5 3) cube 4) Monday 5) 42.

12 Secret Code: BRAIN, LOGIC, MATH, GAME, CLUE, PUZZLE.

13 Matching Logic: Ben–Reading; Chloe–Puzzles; Ava–Drawing; Diego–Chess.

14 Mini Mystery: Noor left the pasta lunchbox.

15 Route Challenge: Right, Right, Down, Right, Down, Right, Right, Down.

16 Riddles: Clock; piano/keyboard; towel; clock; sponge; joke.

17 Mixed: 31; 9; EPH; equal; 36.

18 Challenge: 3; 15; 4; 0.05, 0.15, 0.5, 0.9; Friday.

**Teacher Tip:** Encourage children to explain how they found each answer. The goal is reasoning, not just speed!