



ELITE BRITISH ADMISSIONS

# The Complete Guide to the CAT4 Test

*Sample Paper*

<b>AGE GROUP</b>	Age 6–17 (Year 2 to Year 11+)
<b>USED BY</b>	Independent schools for admissions and streaming
<b>DURATION</b>	Approx. 45–50 min per battery (2.5 hrs total)
<b>FORMAT</b>	Multiple choice (A–D), 4 batteries
<b>BATTERIES</b>	4 — Verbal Reasoning · Quantitative Reasoning · Non-Verbal Reasoning · Spatial Reasoning

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## Instructions & Paper Overview

- The CAT4 (Cognitive Abilities Test, 4th Edition) assesses reasoning abilities across four batteries.
- For each question, choose the **one best answer** (A–D) from the options given.
- There is no penalty for wrong answers — attempt every question.
- Work as quickly and accurately as you can. Each battery is timed separately.
- The CAT4 is used by schools to understand how pupils learn, not just what they know.

BATTERY	SKILL ASSESSED	QUESTIONS	APPROX. TIME
1	Verbal Reasoning	10 questions (A–D)	20 min
2	Quantitative Reasoning	10 questions (A–D)	20 min
3	Non-Verbal Reasoning (Figures)	10 questions (A–D)	20 min
4	Spatial Reasoning	8 questions (A–D)	15 min

**Battery 1 — Verbal Reasoning** 10 questions · 20 minutes

Choose the one best answer (A–D) for each question. These questions test your ability to understand and reason with words and language.

**Word Analogies (Q1–Q4):** Find the word that completes the analogy in the same way.

**1. BOOK is to LIBRARY as PAINTING is to:**

**A** Artist

**B** Canvas

**C** Gallery

**D** Colour

**2. DOCTOR is to HOSPITAL as JUDGE is to:**

**A** Prison

**B** Courtroom

**C** Police

**D** Lawyer

**3. WARM is to HOT as COOL is to:**

**A** Tepid

**B** Mild

**C** Freezing

**D** Chilly

**4. CHAPTER is to NOVEL as VERSE is to:**

**A** Rhyme

**B** Poem

**C** Story

**D** Word

**Verbal Classification (Q5–Q7):** Three words belong to the same group. Choose the word that also belongs to this group.

**5. RUBY • SAPPHIRE • EMERALD • Which word belongs to this group?**

**A** Gold

**B** Diamond

**C** Silver

**D** Marble

**6. CLARINET • OBOE • FLUTE • Which word belongs to this group?**

**A** Violin

**B** Drum

**C** Bassoon

**D** Harp

**7. AMAZON • NILE • THAMES • Which word belongs to this group?**

**A** Pacific

**B** Everest

**C** Sahara

**D** Danube

**Verbal Odd One Out (Q8–Q10):** Three words share something in common. Choose the word that does NOT belong.

**8. Which word does NOT belong? JANUARY • MARCH • APRIL • TUESDAY**

**A** January

**B** March

**C** April

**D** Tuesday

**9. Which word does NOT belong? EAGLE • SPARROW • DOLPHIN • ROBIN**

**A** Eagle

**B** Sparrow

**C** Dolphin

**D** Robin

**10. Which word does NOT belong? SQUARE • RECTANGLE • TRIANGLE • SPHERE**

**A** Square

**B** Rectangle

**C** Triangle

**D** Sphere

**Battery 2 — Quantitative Reasoning** 10 questions · 20 minutes

Choose the one best answer (A–D) for each question. These questions test your ability to reason with numbers and identify patterns.

**Number Series (Q1–Q4):** Find the number that continues the sequence.

1. What is the next number in the series? 2, 4, 8, 16, \_\_\_\_

A 24

B 28

C 32

D 36

2. What is the next number in the series? 100, 91, 82, 73, \_\_\_\_

A 64

B 65

C 66

D 74

3. What is the next number in the series? 1, 4, 9, 16, 25, \_\_\_\_

A 30

B 35

C 36

D 49

4. What is the next number in the series? 3, 7, 15, 31, \_\_\_\_

A 47

B 55

C 63

D 62

**Number Analogies (Q5–Q7):** Find the number that completes the analogy.

5. 4 is to 16 as 5 is to \_\_\_\_

A 20

B 25

C 30

D 10

6. 12 is to 4 as 27 is to \_\_\_\_

A 7

B 8

C 9

D 3

7. 7 is to 49 as 11 is to \_\_\_\_

A 88

B 110

C 121

D 111

**Quantitative Word Problems (Q8–Q10):** Choose the correct answer.

8. A train travels 180 km in 3 hours. At the same speed, how far will it travel in 5 hours?

A 270 km

B 300 km

C 360 km

D 900 km

9. In a class of 30 students, 40% are boys. How many girls are in the class?

A 12

B 15

C 18

D 20

10. If 3 pens cost £2.40, how much do 7 pens cost?

A £4.80

B £5.20

C £5.60

D £6.00

**Battery 3 — Non-Verbal Reasoning (Figures)** 10 questions · 20 minutes

Choose the one best answer (A–D) for each question. These questions test your ability to identify patterns and relationships between shapes and figures.

**Figure Series (Q1–Q4):** Each question describes a sequence of figures. Choose the option that comes next.

**1.** A sequence shows: a circle with 1 dot inside, then a circle with 2 dots, then a circle with 3 dots. What comes next?

**A** Circle with 3 dots

**B** Circle with 4 dots

**C** Square with 4 dots

**D** Circle with 5 dots

**2.** A sequence shows: small black triangle, medium grey triangle, large white triangle. What comes next?

**A** Small white triangle

**B** Large black triangle

**C** Extra-large black triangle

**D** Medium black triangle

**3.** A sequence shows shapes rotating 45° clockwise each step: an arrow pointing Up, then pointing Upper-Right, then pointing Right. What comes next?

**A** Pointing Upper-Right

**B** Pointing Down

**C** Pointing Lower-Right

**D** Pointing Left

**4.** A 3×3 grid has: Row 1 = circle, square, triangle. Row 2 = square, triangle, circle. Row 3 = triangle, circle, \_\_\_\_\_. What is missing?

**A** Circle

**B** Triangle

**C** Square

**D** Pentagon

**Figure Classification (Q5–Q7):** Three figures share a common property. Choose the figure that also belongs to this group.

5. Three figures are all shapes with exactly 4 sides and at least one pair of parallel sides. Which of these also belongs?

A Equilateral triangle

B Regular hexagon

C Parallelogram

D Pentagon

6. Three figures are all shapes that contain a smaller version of themselves inside. Which of these also belongs?

A A large circle with a small triangle inside

B A large square with a small square inside

C A large triangle with a small circle inside

D A large star with a small circle inside

7. Three figures all have exactly one line of symmetry. Which of these also has exactly one line of symmetry?

A Regular hexagon

B Square

C Isosceles triangle

D Equilateral triangle

**Figure Matrices (Q8–Q10):** A  $2 \times 2$  or  $3 \times 3$  grid of figures follows a rule. Choose the missing figure.

8. In a  $2 \times 2$  matrix: Top-left = large black circle, Top-right = large white circle, Bottom-left = small black circle. What is Bottom-right?

A Large black circle

B Small white square

C Small white circle

D Large white square

9. In a  $2 \times 2$  matrix: Top-left = striped square, Top-right = striped circle, Bottom-left = dotted square. What is Bottom-right?

A Striped square

B Dotted triangle

C Dotted circle

D Striped circle

10. Each row of a  $3 \times 3$  grid contains a circle, a triangle, and a square. Each column also contains one of each. Row 3 has: triangle, \_\_\_\_, circle. What is missing?

A Triangle

B Circle

C Square

D Pentagon

**Battery 4 — Spatial Reasoning** 8 questions · 15 minutes

Choose the one best answer (A–D) for each question. These questions test your ability to mentally manipulate shapes and visualise objects in space.

**Mental Rotation (Q1–Q3):** Imagine rotating the described shape and choose the correct result.

**1. An “L” shape is rotated 90° clockwise. Which description matches the result?**

**A** A shape like a “J”

**B** A shape like a “T”

**C** A shape like an upside-down “L”

**D** A shape like a “T” (reversed L)

**2. The letter “F” is reflected in a vertical mirror. Which letter does the result most resemble?**

**A** E

**B** P

**C** A reversed F

**D** T

**3. A shape is rotated 180°. Which statement is always true about the result?**

**A** It is a mirror image.

**B** It looks the same as the original.

**C** It is upside down compared to the original.

**D** It has been reflected.

**Paper Folding (Q4–Q6):** Imagine folding a square piece of paper as described, then punching a hole. How many holes appear when unfolded?

**4. A square is folded in half vertically (left side onto right side). One hole is punched near the top of the folded edge. How many holes appear when unfolded?**

**A** 1

**B** 2

**C** 3

**D** 4

**5. A square is folded in half vertically, then in half horizontally. One hole is punched in the centre of the folded square. How many holes appear when fully unfolded?**

**A** 1

**B** 2

**C** 3

**D** 4

6. A square is folded diagonally (bottom-left corner to top-right corner). One hole is punched near the folded corner. How many holes appear when unfolded?

A 1

B 2

C 3

D 4

**Cube Nets (Q7–Q8):** Identify which net folds to make a cube, or which face is opposite a given face.

7. A cube net consists of a cross shape: one central square with four squares attached to each side, and one square attached to the right of the top square. Which face is opposite the central square when folded?

A The top square

B The bottom square

C The left square

D The extra square on the right

8. A cube has faces labelled 1–6. Face 1 is opposite Face 6. Face 2 is opposite Face 5. Which face is opposite Face 3?

A Face 1

B Face 2

C Face 4

D Face 5

— END OF QUESTIONS —

# Answer Key

All 4 Batteries

## BATTERY 1 — VERBAL REASONING

Q1 C	Q2 B	Q3 C	Q4 B	Q5 B
Q6 C	Q7 D	Q8 D	Q9 C	Q10 D

## BATTERY 2 — QUANTITATIVE REASONING

Q1 C	Q2 A	Q3 C	Q4 C	Q5 B
Q6 C	Q7 C	Q8 B	Q9 C	Q10 C

## BATTERY 3 — NON-VERBAL REASONING

Q1 B	Q2 C	Q3 C	Q4 C	Q5 C
Q6 B	Q7 C	Q8 C	Q9 C	Q10 C

## BATTERY 4 — SPATIAL REASONING

Q1 A	Q2 C	Q3 C	Q4 B	Q5 D
Q6 B	Q7 B	Q8 C		