CAT4TESTS

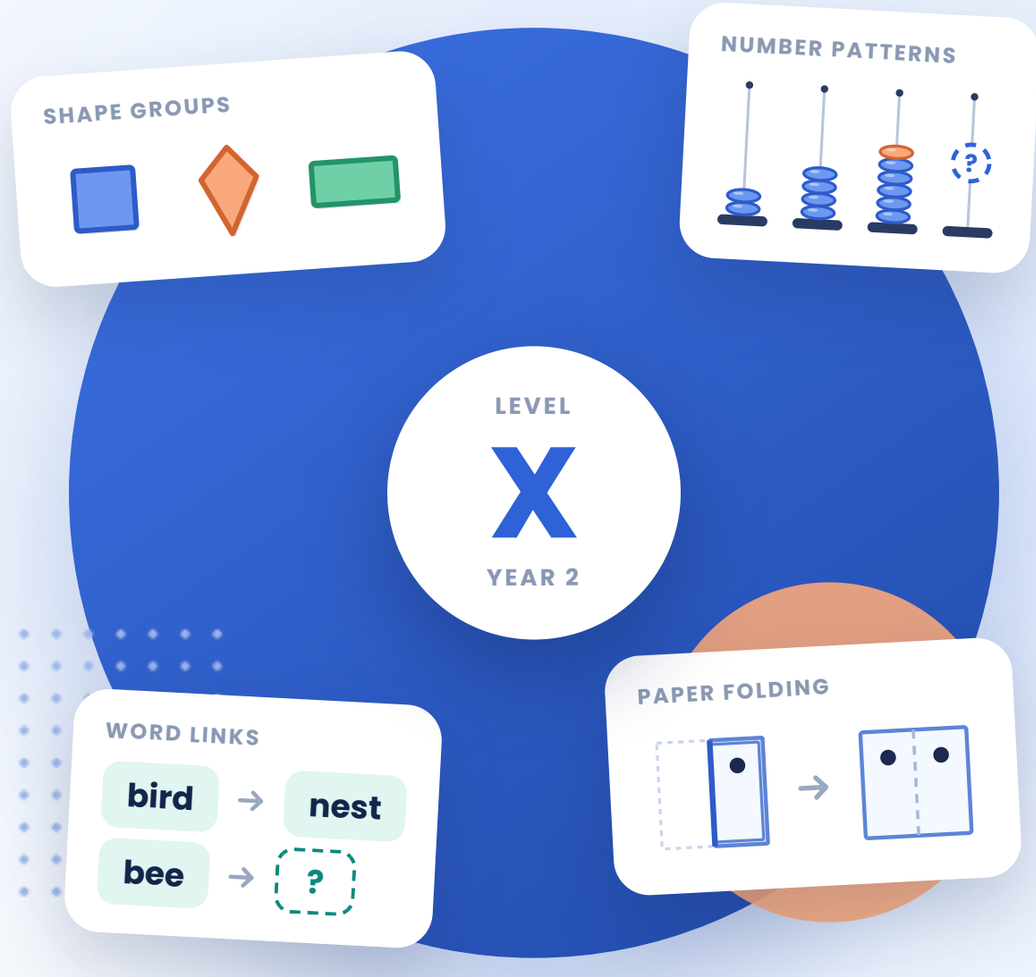
FREE SAMPLE QUESTIONS · YEAR 2

CAT4 Level X Practice Test

8 original questions covering all four CAT4 reasoning areas, with clear step-by-step solutions for parents and children.

- Non-Verbal Reasoning
- Verbal Reasoning
- Quantitative Reasoning
- Spatial Ability

8 questions • **4** reasoning areas • **Full** worked solutions



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INTRODUCTION

Welcome to your free CAT4 Level X sample

This sample gives your child a first look at the four kinds of thinking tested in CAT4 Level X (Year 2). Every question comes with simple steps to follow, and every answer is explained.

HOW TO USE THIS SAMPLE

1. **Try first**
   Let your child try each question on their own, without help.
2. **Use the steps**
   If they get stuck, read the 'How to solve' steps together.
3. **Check & talk**
   Mark the answers on the solution pages and talk through each one.

THE FOUR CAT4 REASONING AREAS

Non-Verbal Reasoning

Thinking with shapes

Finding rules in shapes and patterns, without using words.

Q1–2 Shape groups · Shape grids

Verbal Reasoning

Thinking with words

Spotting how words are grouped and linked by meaning.

Q3–4 Word groups · Word links

Quantitative Reasoning

Thinking with numbers

Finding the rule behind number patterns and pairs.

Q5–6 Number patterns · Number pairs

Spatial Ability

Thinking in pictures

Picturing shapes in the mind — hiding, folding and turning them.

Q7–8 Hidden shapes · Paper folding

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NON-VERBAL REASONING

Shape Groups

CAT4 question type: **Figure Classification**

HOW TO SOLVE

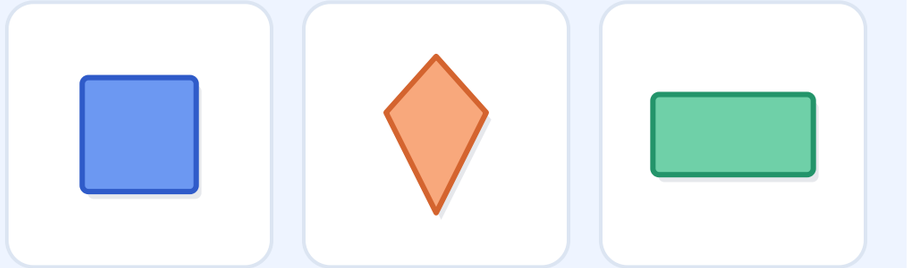
1. Look closely at the three shapes in the group.
2. Ask: what is the **same** about all three? Check sides, colour, size and shading.
3. Cross out the answers that break the rule.
4. Choose the one shape that follows the rule.

MEMORY TRICK

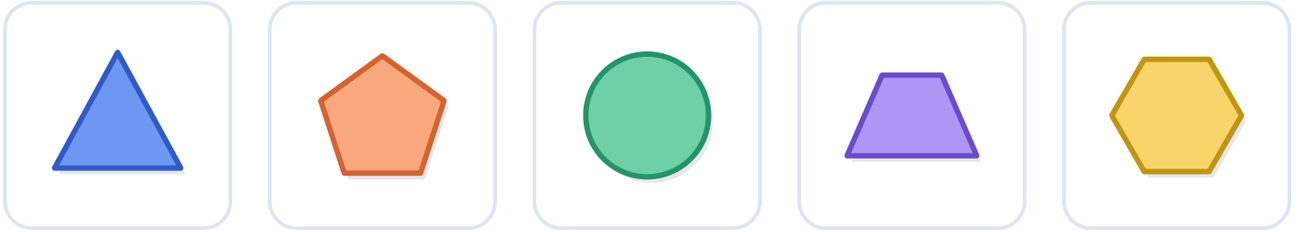
Spot it → Check it → Match it

Question 1 These three shapes are alike in some way. Which shape below goes with them?

THE GROUP



CHOOSE YOUR ANSWER



A B C D E

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NON-VERBAL REASONING

Shape Grids

CAT4 question type: **Figure Matrices**

HOW TO SOLVE

1. Look at the top row. What changes from the first box to the second?
2. Say the change in words, e.g. “it turns round” or “it changes colour”.
3. Make the **same** change to the shape in the bottom row.
4. Check colour, size and direction before you choose.

MEMORY TRICK

Row rule → Copy rule → Check details

Question 2 Look at how the shape changes in the top row. Which shape belongs in the empty box?



CHOOSE YOUR ANSWER



A B C D E

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VERBAL REASONING

Word Groups

CAT4 question type: **Verbal Classification**

HOW TO SOLVE

1. Read the three words carefully.
2. Name the group they all belong to — be as exact as you can.
3. Cross out the words that are not in that group.
4. Choose the word that fits the group best.

MEMORY TRICK

Read → Name the group → Find the match

Question 3 These three words go together. Which word below belongs with them?

Carrot **Potato** **Pea**

CHOOSE YOUR ANSWER

A	B	C	D	E
Cake	Broccoli	Apple	Spoon	Bread

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VERBAL REASONING

Word Links

CAT4 question type: **Verbal Analogies**

HOW TO SOLVE

1. Look at the first pair of words.
2. Make a short sentence that links them, e.g. “A pen is used for writing.”
3. Use the **same** sentence with the next word.
4. Choose the word that completes the sentence.

MEMORY TRICK

Link → Sentence → Swap

Question 4 **bird** goes with **nest**. Which word goes with **bee** in the same way?



CHOOSE YOUR ANSWER

A	B	C	D	E
honey	flower	hive	wing	buzz

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QUANTITATIVE REASONING

Number Patterns

CAT4 question type: **Number Series**

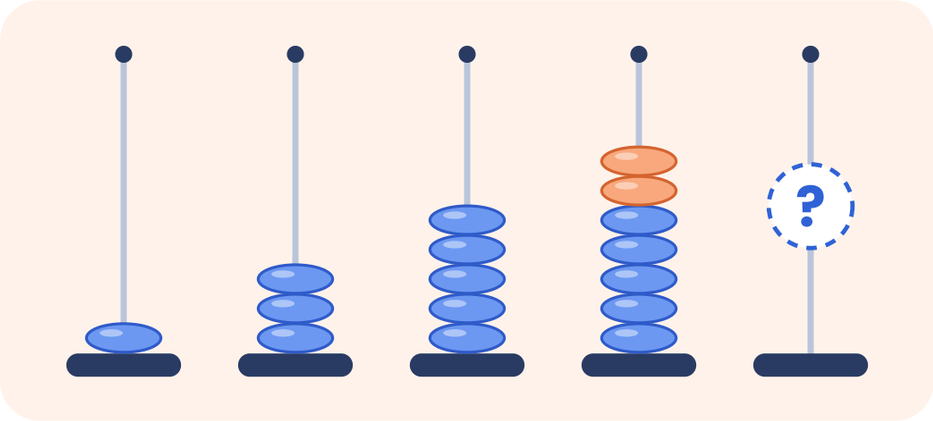
HOW TO SOLVE

1. Count the beads on each rod.
2. Find how the number changes each time — is it going up or down, and by how much?
3. Use the **same** change to find the next number.
4. Choose the rod with that many beads.

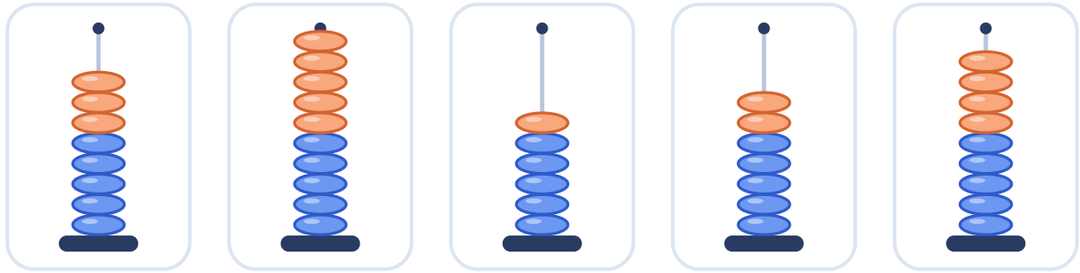
MEMORY TRICK

Count → Find the jump → Jump again

Question 5 The beads on these rods follow a pattern. Which rod comes next?



CHOOSE YOUR ANSWER



A B C D E

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QUANTITATIVE REASONING

Number Pairs

CAT4 question type: **Number Analogies**

HOW TO SOLVE

1. Look at the first pair. How does the first number become the second?
2. Test your rule on the second pair — it must work for **both**.
3. Use the rule on the last number.
4. Choose the answer that matches.

MEMORY TRICK

Find the rule → Test the rule → Use the rule

Question 6 Each pair of numbers follows the same rule. Which number is missing?



CHOOSE YOUR ANSWER

A	B	C	D	E
10	9	16	11	6

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SPATIAL ABILITY

Hidden Shapes

CAT4 question type: **Figure Recognition**

HOW TO SOLVE

1. Study the target shape: its size, its corners and which way it faces.
2. Look for the same shape hidden inside each design.
3. Ignore shapes that are bigger, smaller, turned or flipped.
4. Choose the design that hides an **exact** copy.

MEMORY TRICK

Size → Direction → Exact match

Question 7 Look at the target shape. Which design has this exact shape hidden in it?

TARGET SHAPE



CHOOSE YOUR ANSWER



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SPATIAL ABILITY

Paper Folding

CAT4 question type: **Figure Analysis**

HOW TO SOLVE

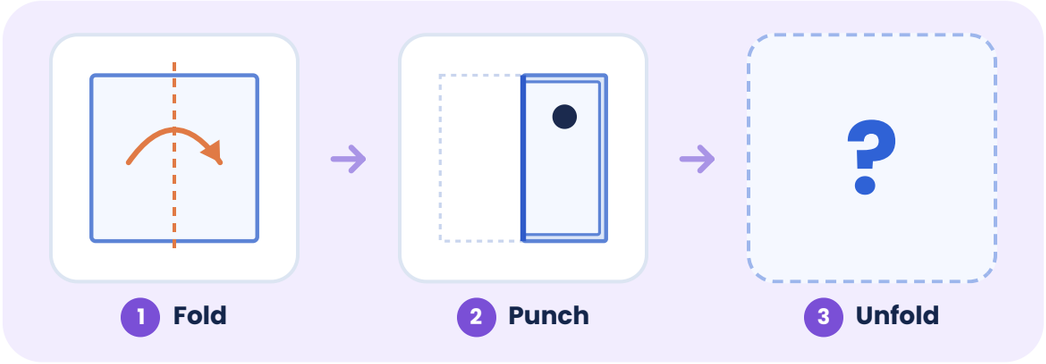
1. Watch how the paper is folded. Where is the fold line?
2. Count how many layers the hole goes through.
3. Unfold it in your mind: each hole is **mirrored** across the fold.
4. Choose the paper that shows every hole in the right place.

MEMORY TRICK

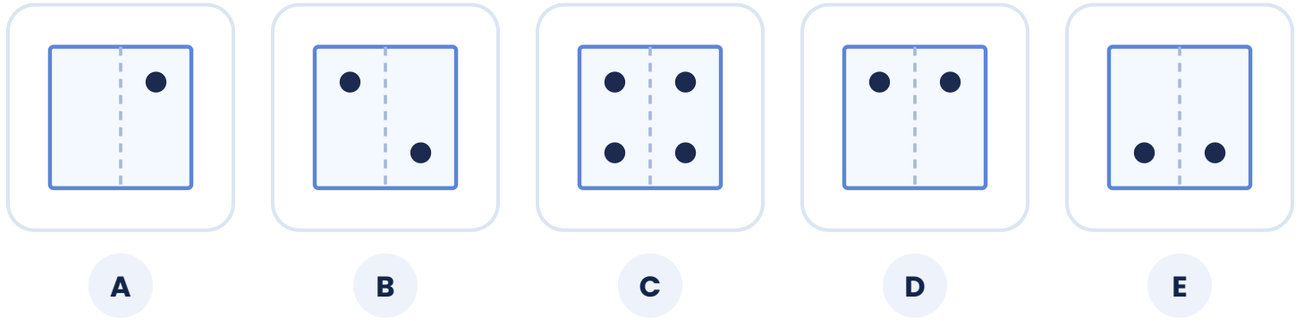
Fold → Punch → Mirror

Question 8

A square of paper is folded, then a hole is punched through it. What does it look like when it is opened?



CHOOSE YOUR ANSWER



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SOLUTIONS & EXPLANATIONS

Questions 1 & 2 Non-Verbal Reasoning

Question 1 SHAPE GROUPS

Answer D

Rule: every shape has **4 straight sides**



A · 3 sides B · 5 sides C · no sides D · 4 sides E · 6 sides

1. The group is a square, a kite and a rectangle. They are different colours and sizes, so colour and size are **not** the rule.
2. Count the sides: each shape has exactly **4 straight sides**.
3. A has 3 sides, B has 5, C has none and E has 6.
4. Only **D** (a trapezium) has 4 sides, so D is correct.

KEY IDEA When colours and sizes change, look for what stays the same — like the number of sides.

Question 2 SHAPE GRIDS

Answer C

Rule: the shape gets **smaller** — colour and shape stay the same



Top row Bottom row = C

1. In the top row, the big blue circle becomes a **small** blue circle.
2. Only the size changes. The colour and the shape stay the same.
3. Do the same to the bottom row: the big orange triangle becomes a small orange triangle, still pointing up.
4. A is still big, B is the wrong colour, D is the wrong shape and E is upside down. Answer: **C**.

KEY IDEA Say the rule in words, then check colour, size and direction.

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SOLUTIONS & EXPLANATIONS

Questions 3 & 4 Verbal Reasoning

Question 3 WORD GROUPS

Answer B

Carrot, potato and pea are all **vegetables**

Cake	Broccoli	Apple	Spoon	Bread
food	vegetable	fruit	not food	food

1. Carrot, potato and pea are all **vegetables**.
2. Cake, apple and bread are foods too, but they are not vegetables. A spoon is not a food at all.
3. Broccoli is a vegetable, so it belongs in the group. Answer: **B**.

KEY IDEA Choose the closest group — "vegetables" is better than just "food".

Question 4 WORD LINKS

Answer C

Link: **"lives in"**

bird lives in a **nest**

bee lives in a **hive**

1. Make a sentence for the first pair: "A bird **lives in** a nest."
2. Use the same sentence for the bee: "A bee lives in a ___."
3. Bees live in a **hive**. Honey, flowers, wings and buzzing are all linked to bees, but none of them is a bee's home.
4. Answer: **C**.

KEY IDEA The link must be the same for both pairs — here it is "lives in".

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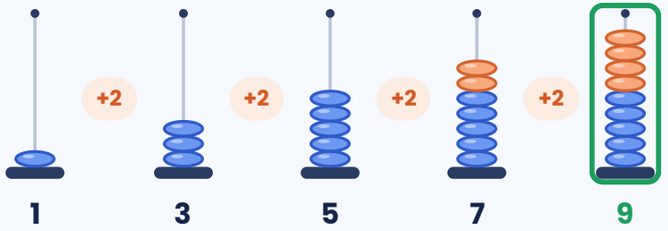
SOLUTIONS & EXPLANATIONS

Questions 5 & 6 Quantitative Reasoning

Question 5 NUMBER PATTERNS

Answer E

Rule: add 2 beads each time



1. Count the beads on each rod: 1, 3, 5, 7.
2. Each rod has **2 more** beads than the one before.
3. The next rod needs 7 + 2 = **9** beads.
4. Rod E has 9 beads (5 blue and 4 orange). Answer: **E**.

KEY IDEA Count the blue beads as a group of five first — it makes counting faster.

Question 6 NUMBER PAIRS

Answer A

Rule: add 2 — it works for every pair

2 → 4	5 → 7	8 → 10
+2	+2	+2

Doubling does not work: 5 doubled is 10, not 7.

1. First pair: 2 → 4. This could be “add 2” or “double”.
2. Test both on the second pair: 5 + 2 = 7 works, but 5 doubled is 10, which does not.
3. So the rule is **add 2**: 8 + 2 = **10**.
4. Answer: **A**. (16 is a trap — it uses doubling.)

KEY IDEA A rule must work for every pair, not just the first one.

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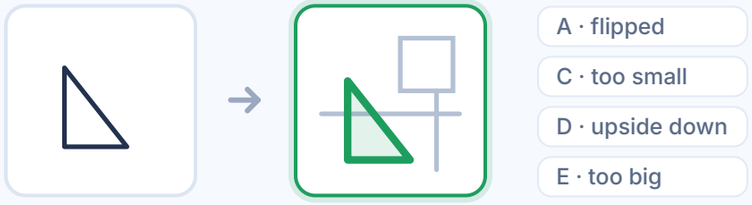
SOLUTIONS & EXPLANATIONS

Questions 7 & 8 Spatial Ability

Question 7 HIDDEN SHAPES

Answer B

Same size · same direction · exact copy



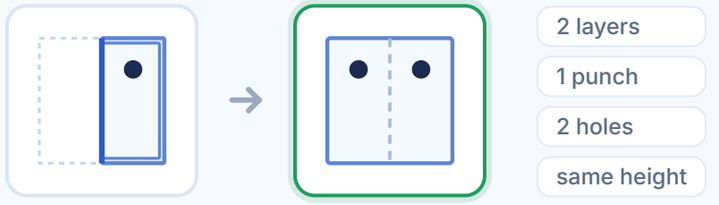
1. The target is a right-angled triangle. Its square corner is at the **bottom left**, and it is taller than it is wide.
2. In B, the same triangle is hidden among extra lines — same size, facing the same way.
3. A is flipped left to right, C is too small, D is flipped upside down and E is too big.
4. Answer: **B**.

KEY IDEA The hidden shape must be the exact same size and face the same way.

Question 8 PAPER FOLDING

Answer D

Every hole is mirrored across the fold



1. The paper is folded in half, left side over right side, so there are **two layers**.
2. One punch goes through both layers, so it makes **two holes**.
3. When the paper is opened, the second hole appears on the other side of the fold at the same height — like a mirror.
4. Two holes near the top, one on each side of the fold. Answer: **D**.

KEY IDEA Each hole is copied across the fold line, like a reflection in a mirror.

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04

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