

CAT4 Level F – Free Practice Questions

Sample Questions & Answer Guide – 2026 Edition

Introduction

This document provides free sample questions for the CAT4 Level F assessment, suitable for students in Year 9 and 10. Each section is designed to mirror the real test format. After completing the questions, you will find full solutions and explanations for all questions.



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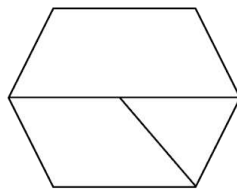
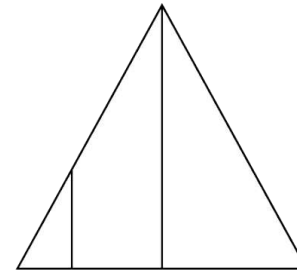
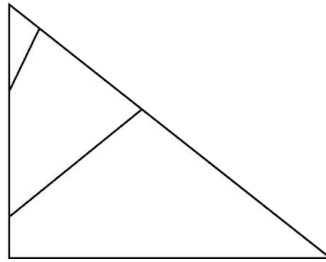
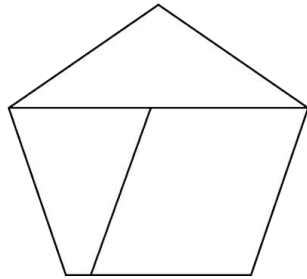
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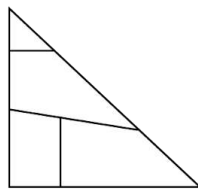
Non-Verbal Battery

◇ Figure Classification

In figure classification questions, you are presented with three figures on the top row that are similar in some way or share a certain characteristic. Then you need to choose the answer choice from the bottom row that also shares this characteristic. Please note that there can be more than one characteristic that binds the three figures in the top row together.



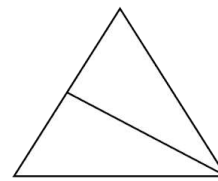
A



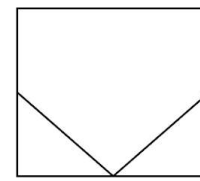
B



C



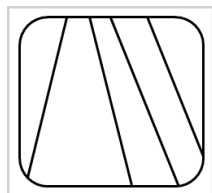
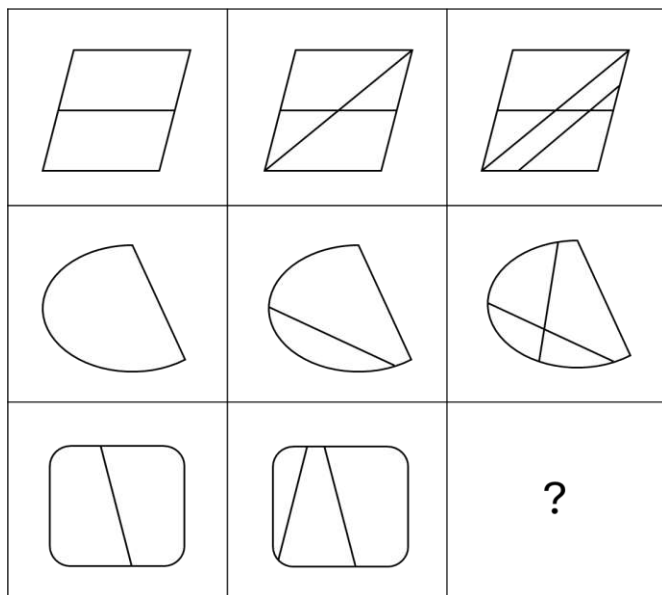
D



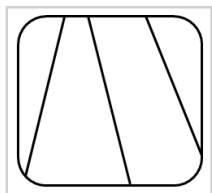
E

Figure Matrices

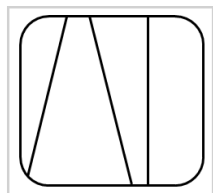
Figure matrices questions on the CAT4 use 2×2 or 3×3 matrices. The figures on the matrices change across the rows from left to right and/or down the columns from top to bottom according to a certain rule. Your goal is to find the rule and apply it to find the missing figure (represented by “?”).



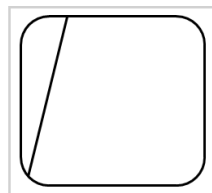
A



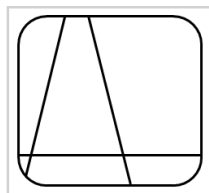
B



C



D



E



Verbal Battery

Verbal Classification

The three words on the top are part of a certain category or are related in some way. You need to choose the answer choice that is best associated with the top three words.

painting vase sculpture

A) rug B) chair C) clock D) frame E) pillow



Verbal Analogies

You are presented with *two pairs* of words. Your goal is:

1. To understand how the words in the *first pair* go together – define the relationship between them.
2. Then, choose the word that maintains the same relationship with the *first word* in the *second pair*.

Compass → direction : microscope → ?

- A) lens
- B) biology
- C) vision
- D) detail
- E) observation



Quantitative Battery

+ Number Analogies

Each number analogies question has three pairs of numbers in brackets that follow the same pattern. You need to understand the pattern to find the missing number in the third pair.

[36 → 10] [48 → 14] [30 → ?]

A) 8 B) 9 C) 10 D) 11 E) 12



Number Series

You are presented with a sequence which follows a certain rule. Identify the rule and then use it to figure out the next number in the sequence.

3 6 12 4 8 16 5 10 ?

A) 6 B) 12 C) 17 D) 20 E) 30

Spatial Reasoning Battery

Figure Analysis

Figure Analysis questions show a folded paper with holes punched in it. Choose the answer that shows how the paper looks when completely unfolded.

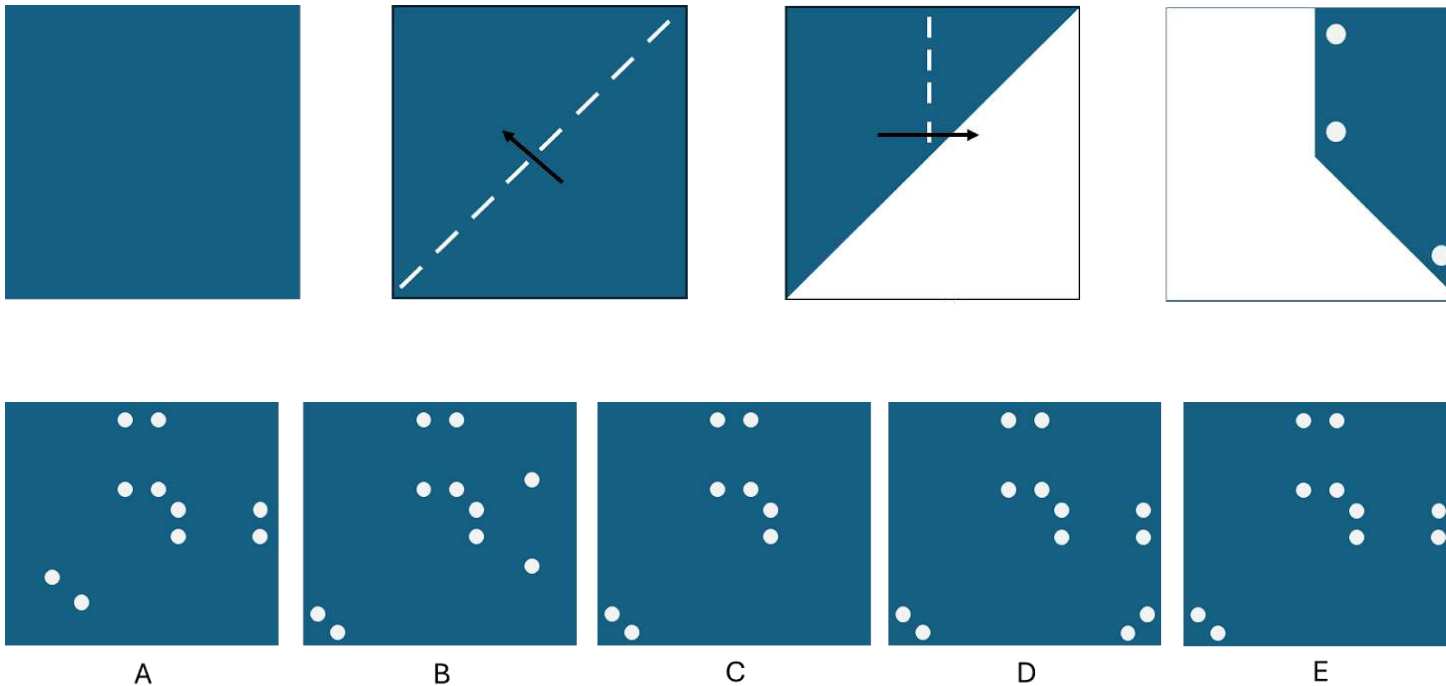
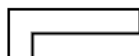
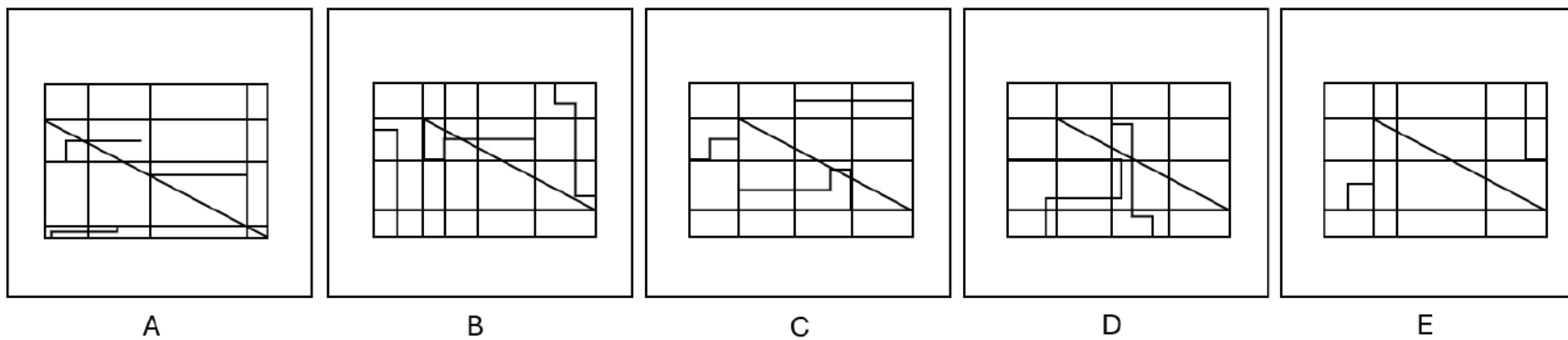


Figure Recognition

In this type of questions, you are given a single shape below the answer choices. You need to locate this *exact* same shape inside one of the structures in the answer choices. Remember - you need to find an *identical* shape, which means:

- Same size.
- Same direction.
- Same number of edges.
- The edges must look the same.



Answer Explanations

Below you will find a detailed explanation for each question.

Non-Verbal Battery

◆ Figure Classification – Explanation

The correct answer is (C).

The three figures on the top are similar in the following ways:

1. Each figure consists of a shape with an odd number of sides.
2. Each shape contains two inner lines, dividing the shape into three unequal parts.

Answer (C) matches these rules:

- The shape is a pentagon and has five sides, which is an odd number.
- The pentagon contains two inner lines, dividing it into three unequal parts.

Figure Matrices – Explanation

The correct answer is (B).

Here you have a 3*3 matrix. The rule, from left to right:

- Each time, one inner diagonal line is added to the figure.

The only answer choice that fits this rule is (B).

Why the rest of the answer choices are incorrect:

- In answer (A) two diagonal lines are added, instead of just one.
- In answer (C), a vertical line is added instead of a diagonal line.
- In answer (D), one line is removed while a line should be added.
- In answer (E), a horizontal line is added instead of a diagonal line.

Verbal Battery

Verbal Classification – Explanations

The correct answer is (D), frame.

Painting, vase, and sculpture are **primarily decorative objects** that are meant to be looked at and appreciated visually. So is a **frame** — it is designed to display or enhance visual items (photos, artwork).

Let's check the distractors:



A) **rug** – sometimes decorative, but often functional (warmth, sound-dampening, floor protection).

B) **chair** – primarily functional (sitting).

C) **clock** – has a visual presence, but it is primarily **functional** (tells the time).

E) **pillow** – primarily used for comfort, not for visual display or decoration.

Verbal Analogies – Explanations

The correct answer is (D), **detail**.

This is a **tool-to-purpose** relationship:

- A **compass** is a tool used to find **direction**.
- A **microscope** is a tool used to see small **details**.

So, the relationship is:

Tool → **what it helps you detect**

Let's see why the other answer choices are incorrect:

A) **lens** – lenses are an essential part of a microscope, but you do not use the microscope to find lenses.



B) biology – while microscopes are used **in** biology, you don't “see biology” itself — it's too broad. You use a microscope to observe **specific details within biology**, like cells or bacteria.

C) vision - microscopes help you see things that are too small to see unaided, so “vision” is too general to fit this analogy.

E) observation – this describes an **action**, not an outcome. A microscope helps you *observe*, but more precisely, it helps you observe **fine details** — which is why “detail” is the better fit.

Quantitative Battery

+ Number Analogies – Explanations

The correct answer is (A), 8.

Let's test this 2-step rule:

Divide by 3, then subtract 2

- $36 \div 3 = 12$, then $12 - 2 = 10$
- $48 \div 3 = 16$, then $16 - 2 = 14$
- $30 \div 3 = 10$, then $10 - 2 = 8$

Tip: Looking for an arithmetic operation that brings the first number closer to the second number is many times the key in CAT4 number analogies. So, if you are stuck, try to bring the first number closer to the second number by either addition, subtraction, multiplication, or division, and then see what is the next arithmetic operation that you need to apply.

Number Series – Explanations

The correct answer is (D), 20.

Let's break the solution into steps:

Step 1: Group the numbers into threes

Look at the sequence in sets of 3:

- Group 1: 3, 6, 12
- Group 2: 4, 8, 16
- Group 3: 5, 10, ?

Step 2: Find the pattern within each group

In each group, the numbers follow this rule:

Start $\times 2 \rightarrow$ middle, middle $\times 2 \rightarrow$ last

- Group 1:
3 \rightarrow 6 \rightarrow 12
(3 \times 2 = 6, 6 \times 2 = 12)
- Group 2:
4 \rightarrow 8 \rightarrow 16
(4 \times 2 = 8, 8 \times 2 = 16)
- Group 3:
5 \rightarrow 10 \rightarrow ?



$$(5 \times 2 = 10, 10 \times 2 = 20)$$

Step 3: Notice the starting numbers of each group

- First group starts at 3
- Second group starts at 4
- Third group starts at 5

So, the starting number increases by 1 with each group.

Summary:

Each group of 3 numbers:

- Starts with a number that increases by 1 each time ($3 \rightarrow 4 \rightarrow 5$)
- Then doubles:
Start $\times 2 \rightarrow$ middle
Middle $\times 2 \rightarrow$ end

So, the missing number is $10 \times 2 = 20$.

Spatial Reasoning Battery

Figure Analysis – Explanations

The correct answer is (E).

First, let's explain the folding steps in this question:

1. The paper has been folded diagonally from the bottom-right corner to the top-left corner (panel 2).
2. The paper has been folded vertically from left to right (panel 3).
3. Three holes have been punched in the folded paper.

Second, let's consider the number of holes that should appear after unfolding the paper:

- The hole at the bottom of the figure has been punched through **two** layers of paper. Therefore, after unfolding the paper, this hole will become **two** holes ($1 * 2 = 2$).
- The two holes at the top of the figure have been punched through **four** layers of paper. Therefore, after unfolding the paper, these two holes will become **eight** holes ($2 * 4 = 8$).
- In total, there should be 10 holes after unfolding the paper ($2 + 8 = 10$).
- Answer choices (C) and (D) can be ruled out as they contain 8 and 12 holes, respectively.

Answer choice (A) is incorrect as the holes at the bottom left side should be closer to the bottom left corner.

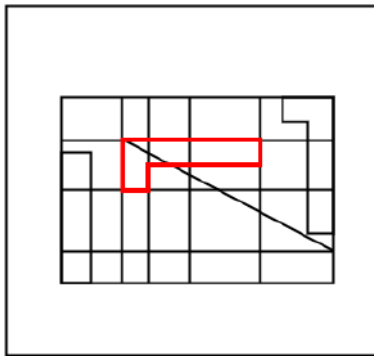
Answer choice (B) is incorrect as the holes on the right should be closer to each other and to the right edge of the figure.

© Figure Recognition – Explanations

The correct answer is (B).

The shape you need to locate is an L-shape rotated 90 degrees clockwise.

The following illustration will help you see where this shape is located in answer (B):



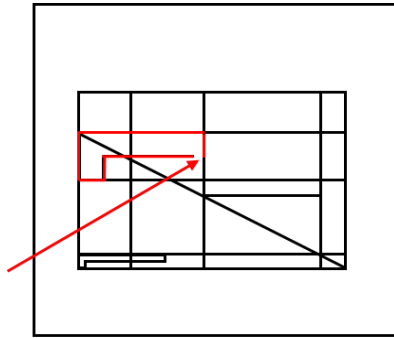
B

[Click here](#) to view a short animation of answer choice B.

Why are the rest of the answer choices incorrect? There are L-shapes in all of the answer choices, but they are either smaller or bigger than the original L-shape. Alternatively, they are positioned in a different direction compared to the original L-shape.

Only answer choice (A) is a bit different - let's check it and see why it is incorrect:

- There is an incomplete L-shape in this answer choice - its edge on the right is incomplete:



A

Next Steps

- If you feel you need additional practice for your CAT4 Level F test, [click here](#) to get a complete preparation pack.
- If you want to learn further about the CAT4, or practice other CAT4 levels, [click here](#).
- If you want to read more information about CAT4 test results and how to understand them, [click here](#).