CAT4 Level E – Free Practice Questions

Sample Questions & Answer Guide – 2026 Edition

Introduction

This document provides free sample questions for the CAT4 Level E assessment, suitable for students in Year 8. 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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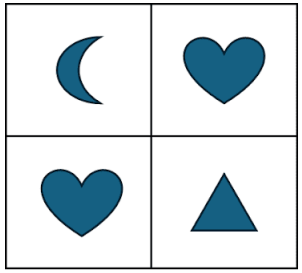
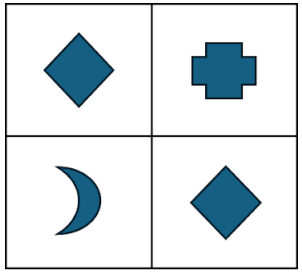
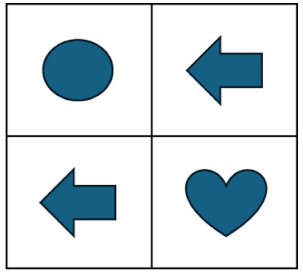
Non-Verbal Battery

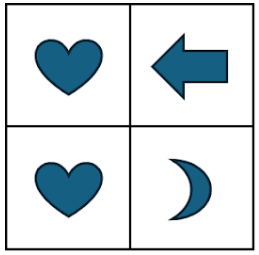
◇ Figure Classification

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.

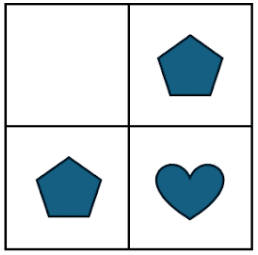








A



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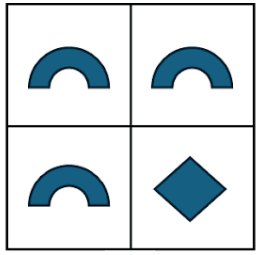
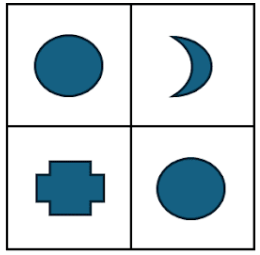
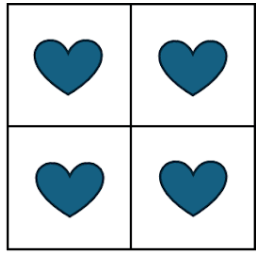


C



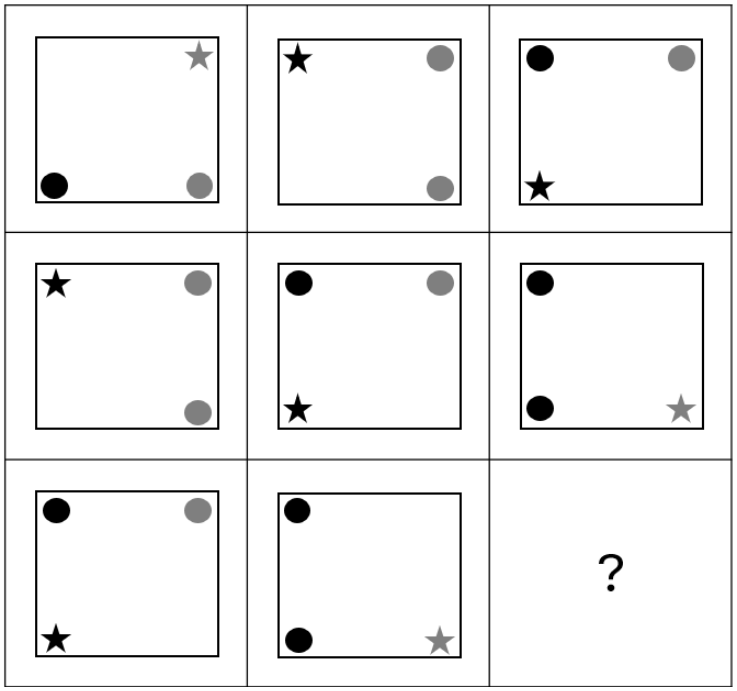
D

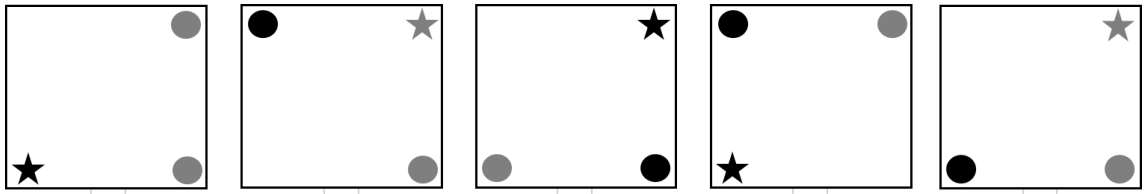


E

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 "?").





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.

Bravery Honesty Kindness

Which word belongs in the same group?

A) Strength
B) Loyalty
C) Speed
D) Wisdom
E) Height

🔗 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*.

dove → peace : scales → ?

A) justice
B) weight
C) balance
D) fairness
E) measure

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.

[7 → 24] [12 → 39] [13 → ?]

A) 30 B) 39 C) 40 D) 42 E) 48

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.

55 24 51 30 47 36 43 42 ?

A) 36 B) 38 C) 39 D) 47 E) 48

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.

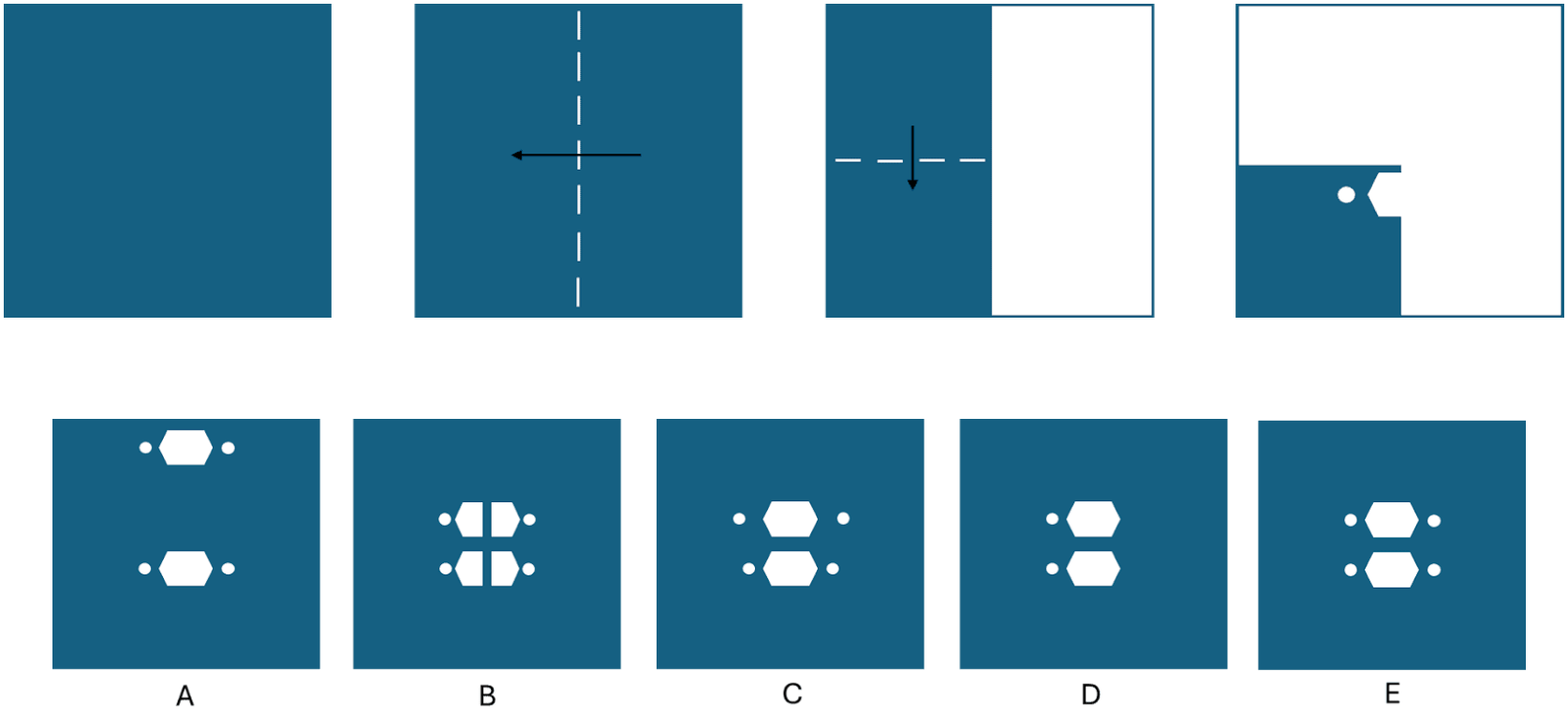
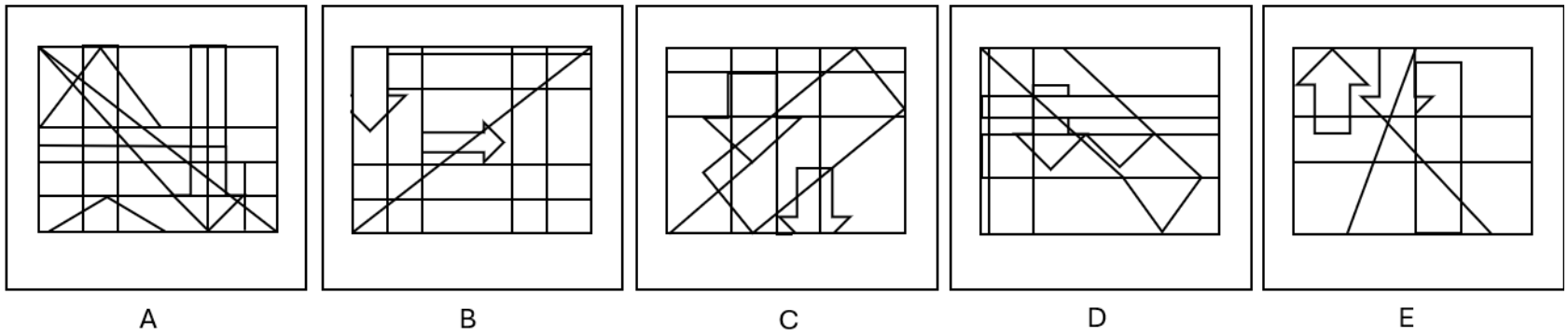
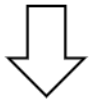


Figure Recognition

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 (D).

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

1. They are squares that contain **four** smaller shapes (a heart, crescent, triangle, etc.).
2. Two of the smaller shapes are **identical** and located **diagonally to one another**:

- Two hearts in the left figure.
- Two diamonds in the middle figure.
- Two arrows in the right figure.

Answer (D) is correct as it contains **two identical circles** that are located **diagonally to one another**.

Why are the rest of the answer choices incorrect?

Answer choice (A): It contains two identical shapes (hearts), but they are located next to each other vertically and not diagonally.

Answer choice (B): It contains only three shapes instead of four.

Answer choice (C): It contains three identical shapes (arcs) instead of just two. In addition, two arcs are next to each other vertically and not diagonally.

Answer choice (E): It contains four identical shapes (hearts) instead of just two.

Figure Matrices – Explanation

The correct answer is (E).

This is a 3×3 matrix. In each frame there is a square that contains three inner shapes: one star and two circles. Note that these inner shapes are always located at the corners of the square.

Across the rows and down the columns, the rules are:

- Each time, each of the inner shapes (the star and the two circles) moves **counterclockwise** to the next corner of the square.
- When the inner shape is located on the **right** side of the square it is coloured **grey**.
- When the inner shape is located on the **left** side of the square it is coloured **black**.

Let's apply these three rules on the last visible frame, to find the missing frame:

1. The star should move to the top right corner and remain grey.
2. The circle in the bottom left corner should move to the bottom right corner and turn grey.
3. The circle in the top left corner should move to the bottom left corner and remain black.

Click here for a visual demonstration.

Applying these rules brings you to answer choice (E)!

Verbal Battery

Verbal Classification – Explanations

The correct answer is (B), loyalty.

Bravery, **Honesty**, and **Kindness** are all widely regarded as positive moral qualities (virtues). **Loyalty** is also usually regarded as a positive moral quality involving commitment and faithfulness.

Why are the rest of the answer choices incorrect?

- **Strength** can mean both physical power (lifting something heavy) and inner strength (emotional resilience), so it isn't as clear and specific as the three words in the question which refer to inner qualities. In addition, even when we talk about *inner strength*, it describes more of a state or capacity (being able to handle hard things) rather than a moral virtue (like kindness or honesty, which are about behaving well).
- **Wisdom** is a positive quality but relates primarily to **judgment and understanding**, not directly to moral behavior.
- **Speed** and **Height** are just physical traits.

Verbal Analogies – Explanations

The correct answer is (A), justice.

A **dove** is a **symbol** that stands for **peace**, just like **scales** (⚖️) are a **symbol** that stands for **justice**.

Why the other choices are incorrect:

- **B) weight** – Scales can measure weight, but in this question, we are looking for what they **represent as a symbol**, not what they do.

- **C) balance** – Balance is related to scales, but balance is more of a **state**, not an idea the scales stand for.
- **D) fairness** – Fairness is close to justice, but the scales are most strongly connected to the concept of **justice** as a system of laws.

  If it's still not quite clear, read the following distinction:

  Fairness is about being even and treating people nicely.

  Justice is about the official way of deciding what is fair by using laws and rules.

  The **scales** are a symbol especially used in **courts and legal systems**, where they stand for **justice**, not just fairness (even though justice should include fairness).
- **E) measure** – This is what scales **do** (they measure), not what they **represent** as a symbol.

Quantitative Battery

Number Analogies – Explanations

The correct answer is (D), 42.

Let's tackle this analogy step-by-step:

1. Look for a pattern:
   First, see how the first number changes into the second number in each pair.

2. Check if multiplying helps in bringing you closer to the second number:

7 × 3 = 21
This is close to 24.

3. Now, check if you need to add something to get to the second number:

   21 + 3 = 24
   This works!

4. Check the same rule with the second pair:

   12 × 3 = 36
   36 + 3 = 39
   It works again!

   Rule found:
   Multiply by 3 and then add 3.

5. Apply the rule to 13:

   13 × 3 = 39
   39 + 3 = 42
   Final Answer: 42

Number Series – Explanations

The correct answer is (C), 39.

Let's tackle this sequence step-by-step:

1. Look at how the numbers are arranged:
The numbers switch back and forth:

- 1st, 3rd, 5th, 7th, 9th positions are one pattern.
- 2nd, 4th, 6th, 8th positions are a different pattern.

2. Check the odd positions:

55 (1s position)

51 (3rd position)

47 (5th position)

43 (7th position)

Notice how each number gets smaller by 4:

- 55 − 4 = 51
- 51 − 4 = 47
- 47 − 4 = 43

So, the next number also goes down by 4:
43 − 4 = 39

3. Check the even positions to be sure:

24 (2nd position)

30 (4th position)

36 (6th position)

42 (8th position)

Each time the number goes up by 6:

24 + 6 = 30
30 + 6 = 36
36 + 6 = 42

But the missing number in the sequence is in an odd position (9th position), so we only need the rule of subtracting 4 from the number in the 7th position to find it:

43 - 4 = 39

Final Answer: 39

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 vertically from right to left (panel 2).
2. The paper has been folded horizontally from top to bottom (panel 3).
3. Two holes have been punched in the folded paper:
    - A pentagon-shaped hole. Notice that this hole has been punched right next to the vertical crease.
    - A circle-shaped hole to the left of the pentagon-shaped hole.

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

Two holes have been punched through **four** layers of paper, so, 2 holes × 4 layers = 8 holes. So we should look for an answer choice with eight holes, shouldn't we? And the answer is - NO!

As we have mentioned earlier, the pentagon-shaped hole had been punched right next to the vertical crease. It means that when unfolding the paper vertically from left to right, there will be two pentagons whose bases are attached to each other, with no gap in between. Therefore, each of the pentagon-shaped holes will eventually look like one hexagon.

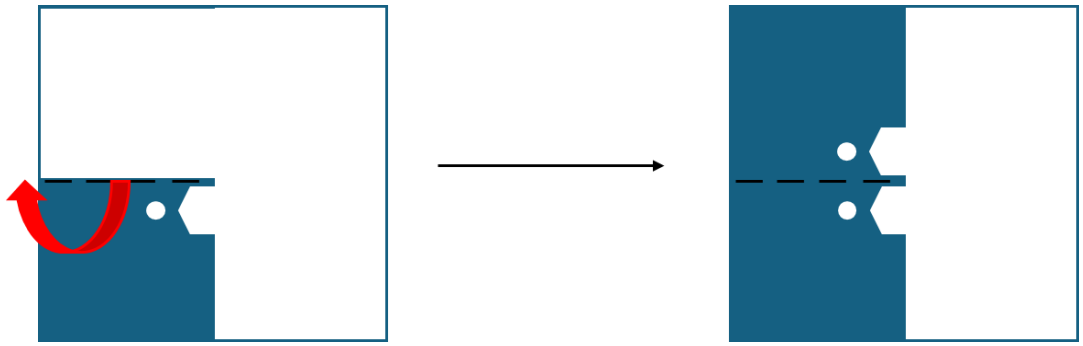
So, it is correct that we should have a total of eight holes, but these holes will look like **six** holes, because of the **four** pentagon-shaped holes creating **two** hexagons. We need to look for an answer with **six** holes.

You can rule out answer choice (B) as it contains eight holes. In addition, no hexagons can be seen in this answer.

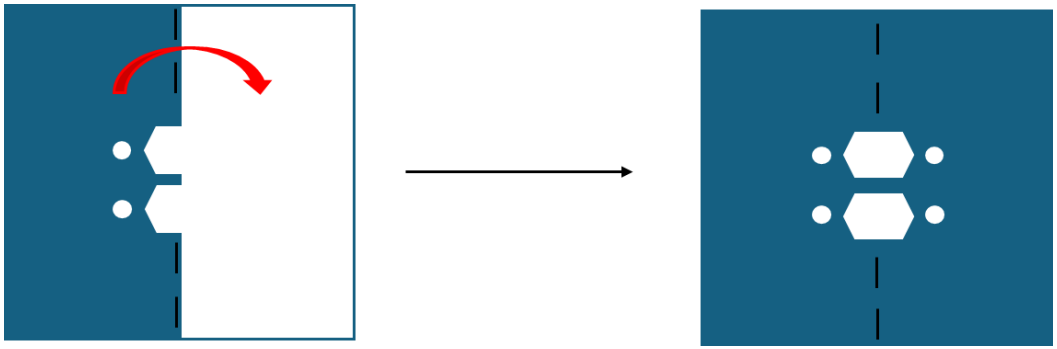
You can also rule out answer choice (D) as it contains only four holes.

Third, let's unfold the paper:

1. Unfold the paper horizontally from bottom to top:



2. Unfold the paper vertically from left to right:



This is exactly answer choice (E)!

Figure Recognition – Explanations

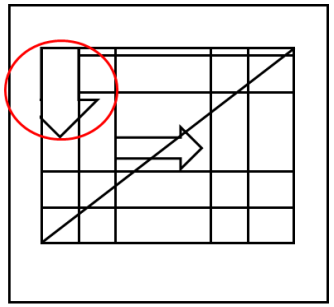
The correct answer is (A).

The shape you need to locate in this question is an arrow pointing down.

Click here for an illustration that shows where this shape is in answer (A).

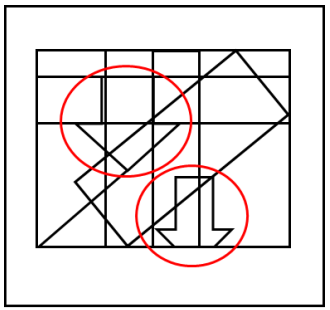
Why are the rest of the answer choices incorrect?

- Answer choice (B) has an arrow pointing down on the left of the figure, but it is cut and incomplete:



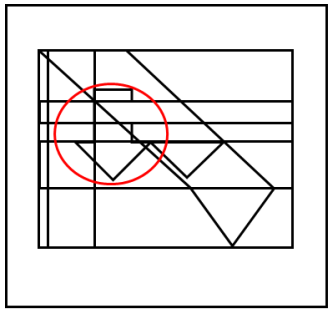
B

- Answer choice (C) has one cut and incomplete arrow pointing down in the middle of the figure. In addition, it has an arrow pointing down on the left of the figure, but this arrow is larger than the original arrow:

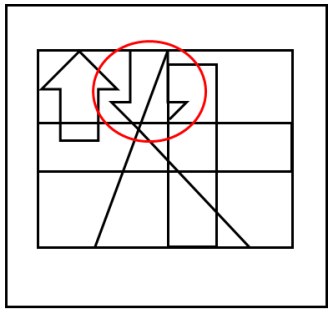


C

- Answer choices (D) and (E) have arrows pointing down, but parts of their edges are missing:



D



E

Take home message: this question demonstrates a main characteristic of CAT4 Figure Recognition questions - the shape you need to locate must be identical to the original single shape!

Next Steps

- If you feel you need additional practice for your CAT4 Level E 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 about CAT4 test results and how to understand them, click here.