Diagrammatic Reasoning

Question & Answers

PRACTICE APTITUDE TESTS

What are diagrammatic reasoning tests?

Diagrammatic reasoning tests assess your logical reasoning ability. The questions measure your ability to infer a set of rules from a flowchart or sequence of diagrams and then to apply those rules to a new situation.

What do diagrammatic reasoning tests measure?

Diagrammatic reasoning assesses both the strength of your inductive reasoning and your deductive capacity. It can be summed up by referring to these two distinctive categories.

> "Your task is to deduce the underlying logic of a pattern and guess what is next to follow."

These tests will check if you can draw conclusions from the premises, and how quickly it will take you to do so.

Instructions for use

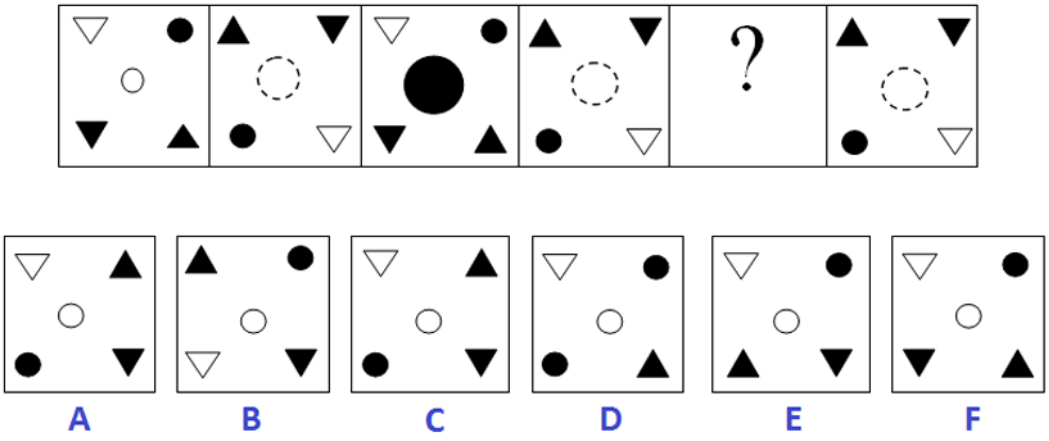
We've provided 5 diagrammatic reasoning questions and answers for you to work through. Try and do each one under timed conditions without looking at the answers. Once you've completed each one, look at the answer to assess your performance and see how you can improve moving forwards.

All questions are multiple choice and there is only one correct answer. Try to take the test in an environment where you will not be disturbed.

If you'd like more diagrammatic reasoning test practice, you can access our huge diagrammatic reasoning test vault online. They're all written by industry experts and are designed to replicate the real tests.

Question 1

Which is the next logical image in the sequence?



A) ☐ B) ☐

C) ☐ D) ☐

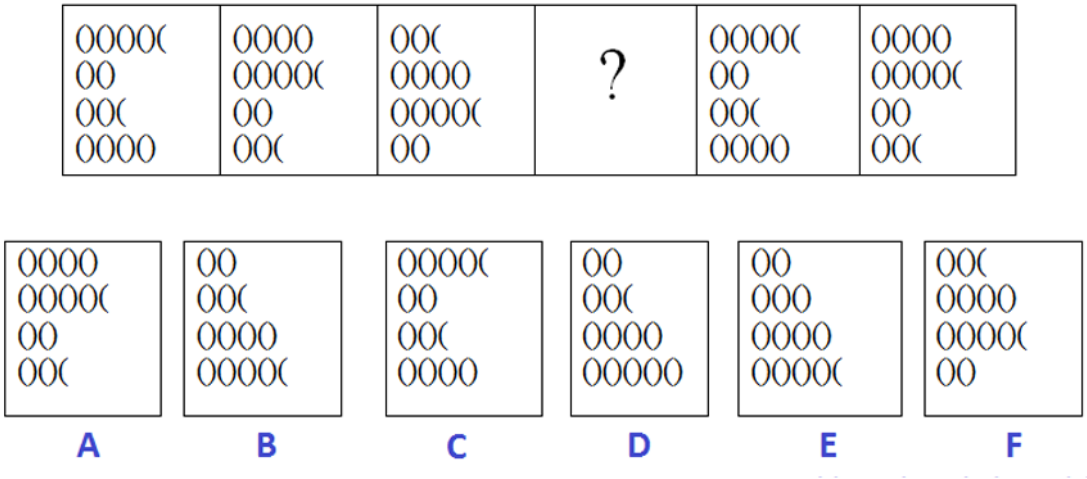
E) ☐ F) ☐

Solution

Answer = F. There is a central figure and four figures with one in each corner: (i) The central figure firstly increases in size over a series of three, then decreases in the same fashion; (ii) The central figure changes from white, to having a dotted outline, to black; and (iii) The four figures rotate around the four corners, moving two corners at a time.

Question 2

Which is the next logical image in the sequence?



A) ☐ B) ☐

C) ☐ D) ☐

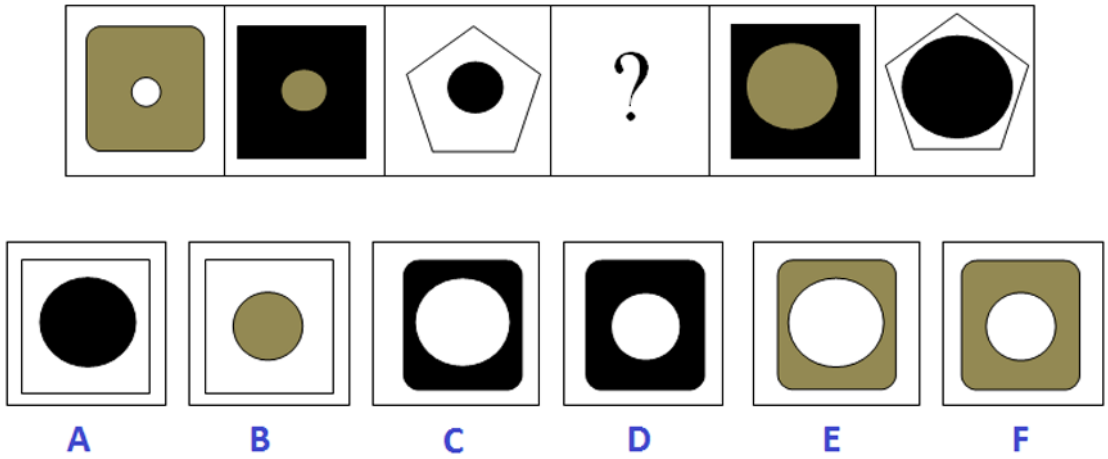
E) ☐ F) ☐

Solution

Answer = B. There are four rows, each containing a set of partially formed ovals. The same four rows appear in each block, but in a different order. In each step of the series the bottom row is moved to the top. This shifts the order of the rows, so that the first row becomes the second, the second row becomes the third and so on.

Question 3

Which is the next logical image in the sequence?



A) ☐ B) ☐

C) ☐ D) ☐

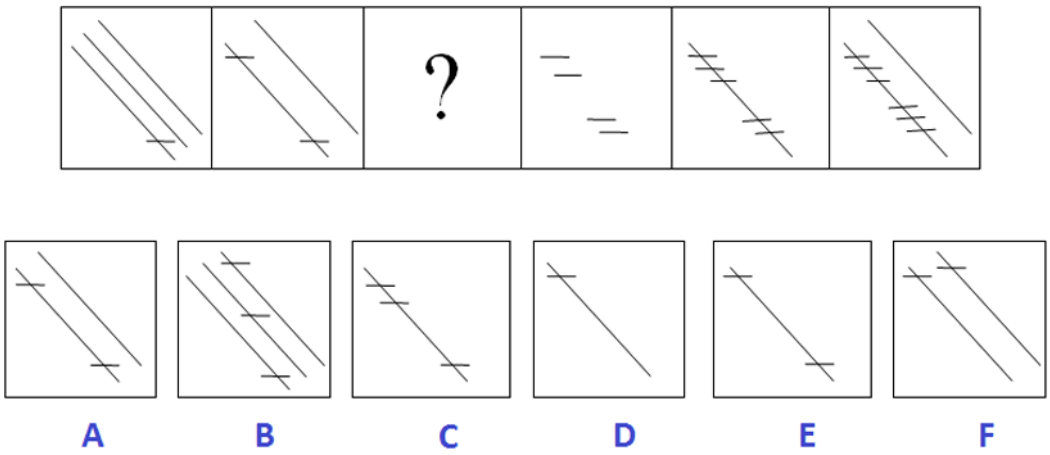
E) ☐ F) ☐

Solution

Answer = F. Each block in the series contains a central figure inside a larger shape: (i) The central figure firstly gradually increases in size; (ii) Secondly changes in colour from white to beige to black, then back to white and so on; (iii) The larger figure changes from a 'square with rounded corners' to a square to a pentagon, then back to a 'square with rounded corners', and so on.

Question 4

Which is the next logical image in the sequence?



A) ☐ B) ☐

C) ☐ D) ☐

E) ☐ F) ☐

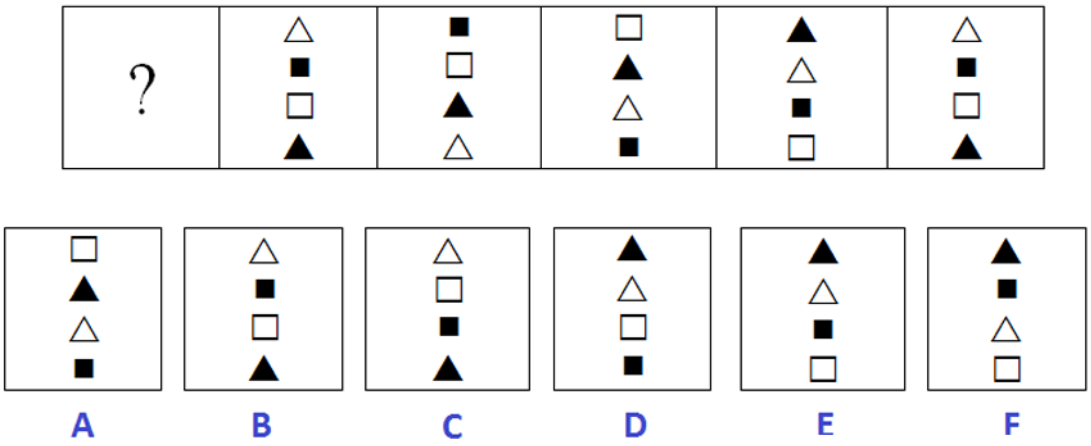
Solution

Answer = C. Rule one: the number of diagonal lines decreases by one each block until there are zero, then increases by one each block (presumably up to a maximum, but we don't know for sure). Since the second image has two lines, the third image (the one we are looking for) must have 1. C, D or F and satisfy this rule.

Rule two: one horizontal line is added to the same diagonal line from one block to the next. Therefore, the third image must contain three horizontal lines on the same diagonal. Only C satisfies this rule.

Question 5

Which is the next logical image in the sequence?



A) ☐ B) ☐

C) ☐ D) ☐

E) ☐ F) ☐

Solution

Answer = E. Each block in the series contains a column of four figures. These are always in the same order: white triangle, then black square, then white square, then black triangle. At each step in the series the top figure is moved to the bottom. Thus, the second figure becomes the first figure, the third becomes the second, and so on. At each step in the series the top figure is moved to the bottom and every other figure moves up one place

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