

Practice Tasks

Deductive Reasoning
(gapChallenge)



How To Use This Document

General Information

This document is designed to support you in preparing for your online deductive reasoning assessment. It provides an overview of the assessment explaining what it measures and how it works.

It also provides 5 practice questions. After these practice questions, solutions and rationale have been provided to help you gain a deeper understanding. We would encourage you to attempt all the practice questions without looking at the solutions first.

Deductive Logical Reasoning

Aon's Deductive Reasoning assessment measures your ability to apply given rules to logical problems in one or more steps.

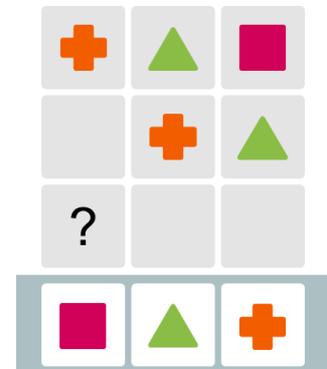
In the assessment, you will receive instructions along with a practice task that you can repeat as many times as you like before you start the actual assessment.

How Does The Deductive Reasoning Assessment Work?

You are presented with a 4*4 or 5*5 grid. Some of the squares in the grid have shapes in, others are blank. One square has a '?' in it. Your task is to figure out what shape would go in this square. To help figure this out, you know that no shape is repeated in any row or column.

To find the right answer, the system allows you to fill in the empty squares of the grid. But keep in mind your task is not to fill the grid, it is to find the shape that belongs in the square with the question mark! Once you have worked out the correct shape, you select it from below the grid. You will then be taken to the next question.

There is no set number of questions; the system will continue to give you a new question every time you complete one. The test may also get more difficult as you progress.



Guidance for the Practice Questions

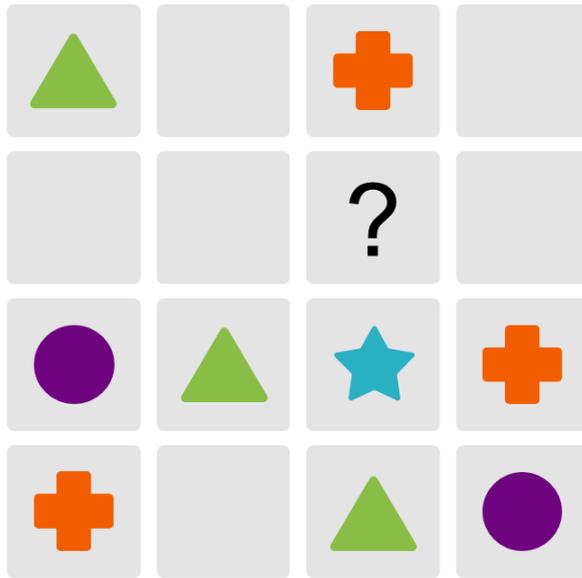
The actual assessment you will take is timed, and there are an unlimited number of questions – you just need to work quickly and accurately, to try to get as many correct as possible in the time provided. As such, there is no specific time limit in the practice tasks. Try to focus and complete them quickly in a single session.

You should use a pencil so you can keep track of the steps you take in working out the answers. You can then also write down your final answers, so that you can compare your answers to the solutions at the end.

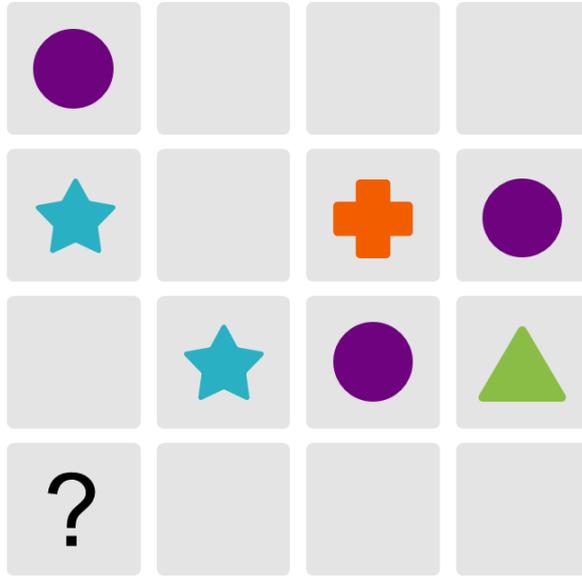
To continue to practice, spend more time reviewing the example tasks and solutions provided here. You may also want to see what other shapes you can work out in the practice questions in this document – but do be careful as you cannot always work out every shape!

Practice Tasks

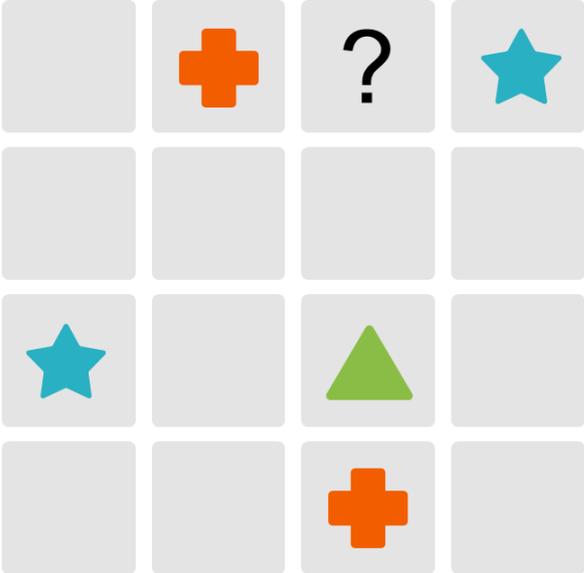
Example 1



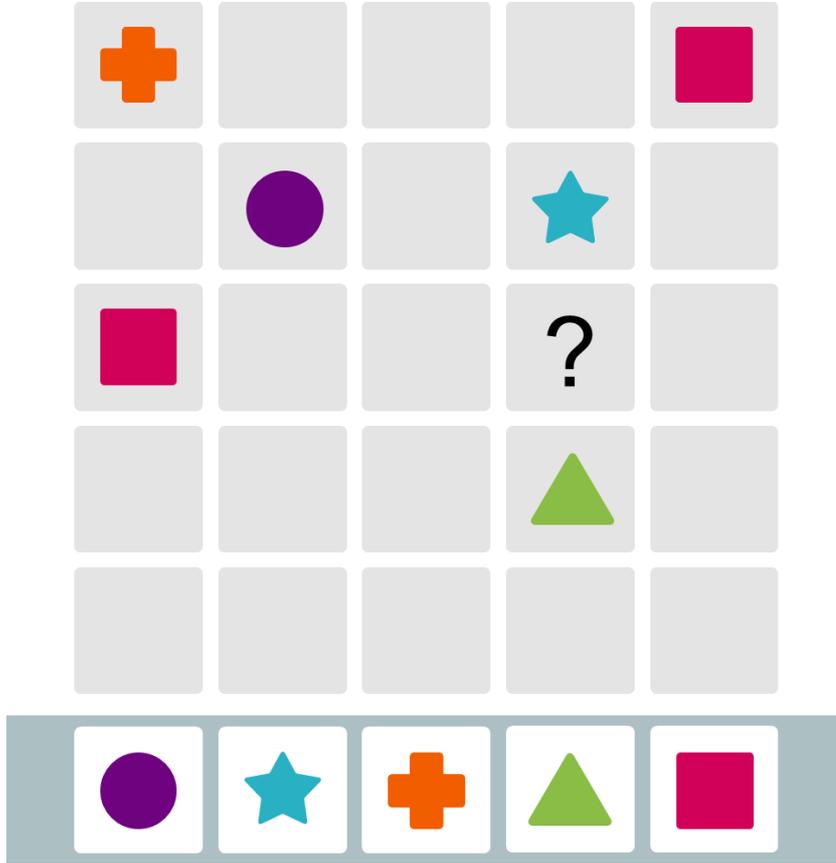
Example 2



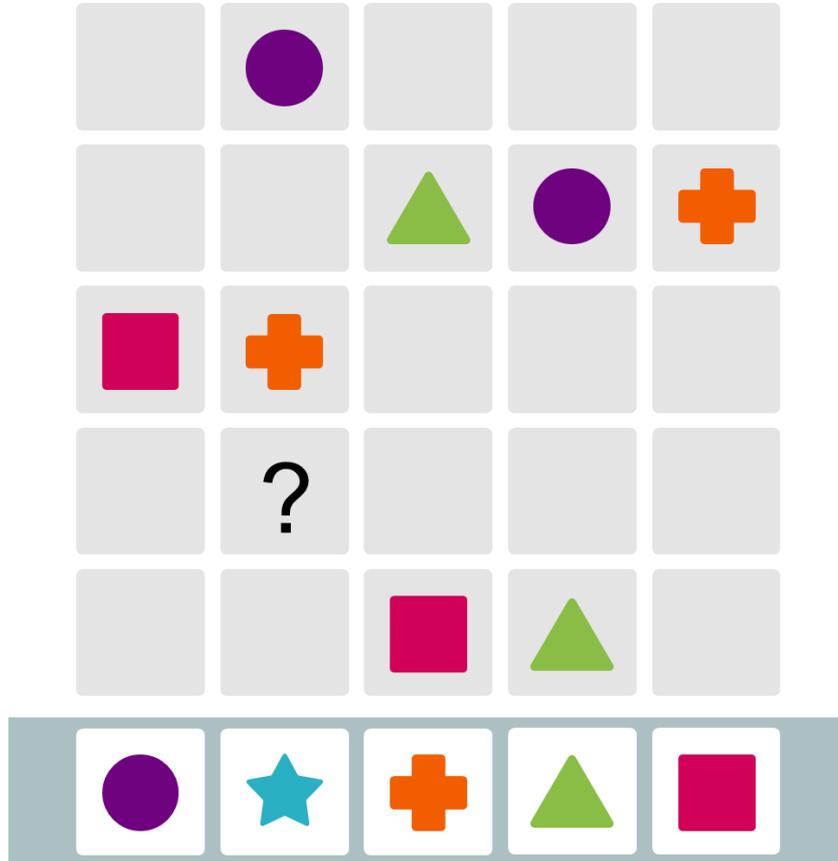
Example 3



Example 4

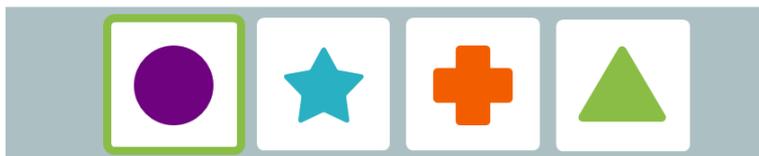
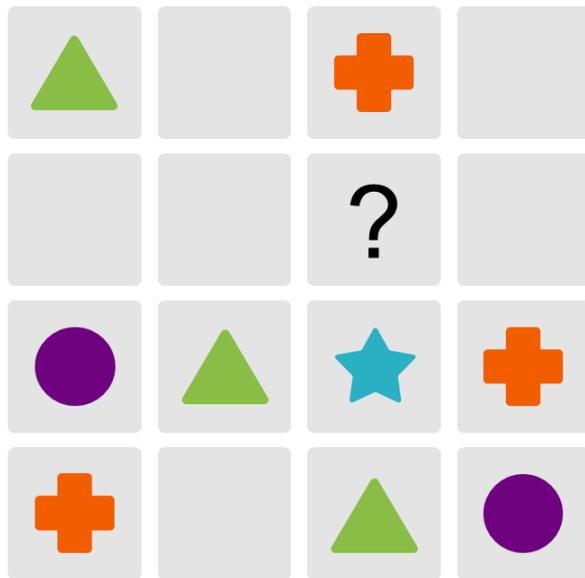


Example 5



Solution & Rationale

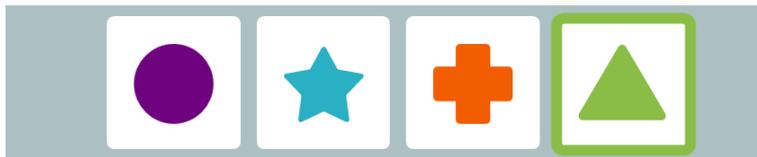
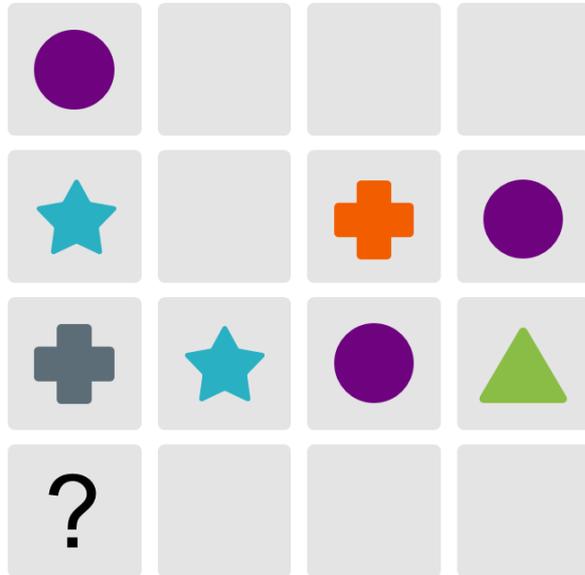
Example 1 - Solution



Answer: Circle

Rationale: The question mark is in the third column, which already contains three out of the four items: cross, star and triangle. The only one missing is the circle, which is the correct answer.

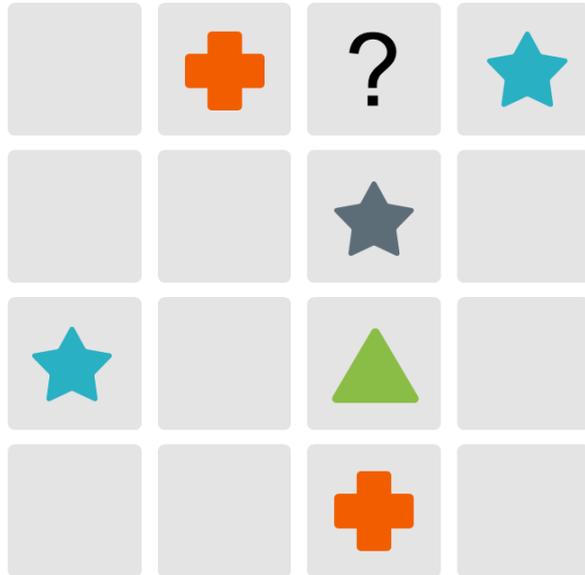
Example 2 - Solution



Answer: Triangle

Rationale: The question mark is in the first column, which has two missing shapes: cross and triangle. When cross-checking with the third row, it becomes clear that this row is still missing a cross while it already contains a triangle. This means that only the triangle can be placed in the square of the question mark.

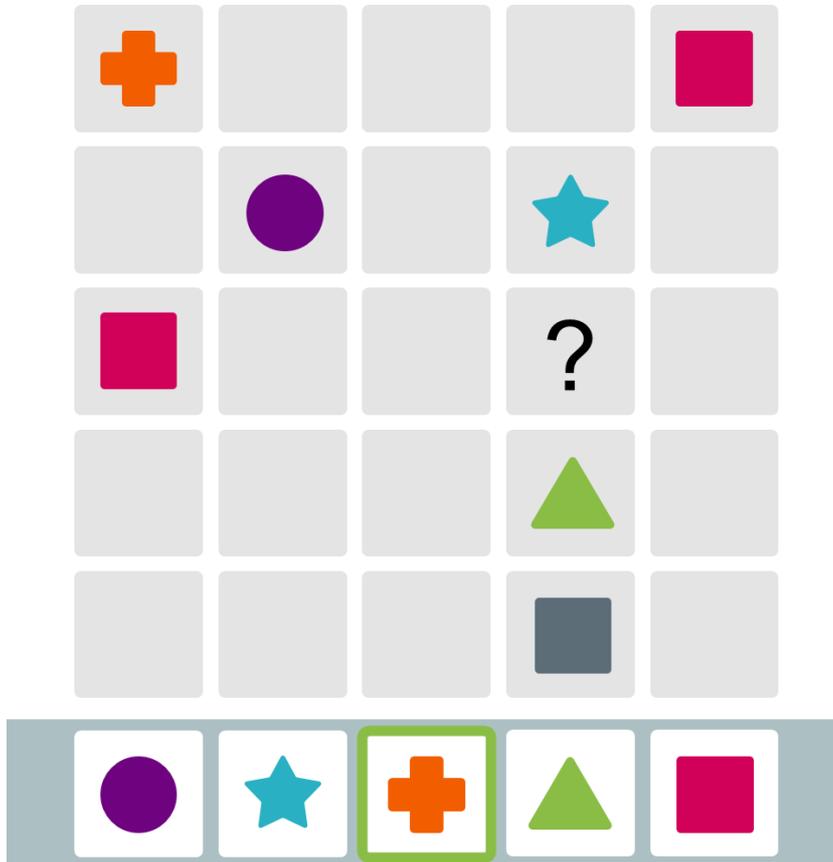
Example 3 - Solution



Answer: Circle

Rationale: The question mark is in the third column, which has two missing shapes: star and circle. When cross-checking with the first row, it becomes clear that this row already has a star, which only leaves the circle as the correct answer.

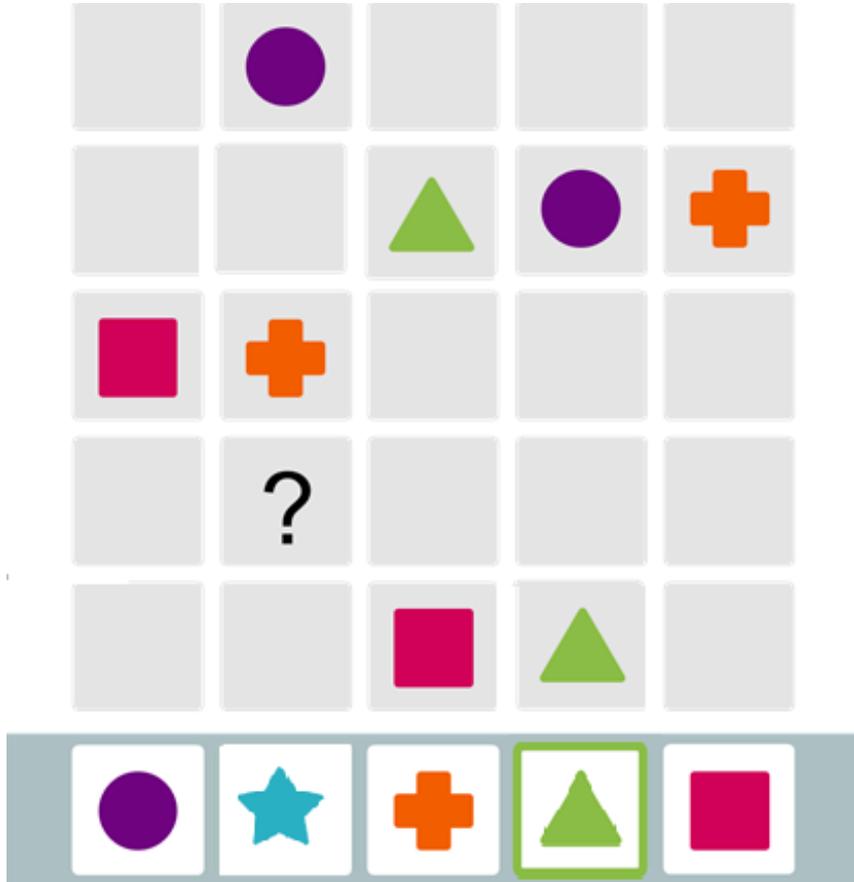
Example 4 - Solution



Answer: Cross

Rationale: The question mark is in the fourth column, which has three missing shapes: circle, cross and square. When cross-checking with the first and the third row, it becomes clear that both of them already contain a square, meaning the only place for the square in the column in question is in the fifth row. This leaves cross and circle. The circle could theoretically go in both places, but we already have a cross in the first row, meaning the cross has to go in the third row, where the question mark is. Cross is the correct answer.

Example 5 - Solution



Answer: Triangle

Rationale: The question mark is in the second column, which has three missing shapes: star, triangle and square. We cannot solve this column by simple cross-checking. However, when looking at the second row, there are two shapes missing, square and star, and because we already have a square in column one, the square needs to be placed in column two. Coming back to the second column, we have two shapes left, star and triangle. Cross-checking with the fifth row, we see a triangle, meaning we cannot place another one there. The only place left for the triangle is the square with the question mark. Triangle is the correct answer."