

Preparation Guide

Diagrammatic Reasoning

This preparation guide helps you to prepare for diagrammatic reasoning assessments. It provides guidance on how best to approach the assessment, allowing you to give your best possible performance.

Why are Aptitude Assessments used?

Employers often use aptitude assessments as part of their assessment procedures for the selection and development of staff. Research has shown that they are powerful predictors of performance at work.

Assessments help you to:

- demonstrate your strengths
- be assessed fairly on job relevant criteria
- find out more about your strengths and development needs
- make future career decisions based on your abilities

Assessments help employers to:

- select people best suited to the demands of the job
- identify areas where individuals might benefit from further development
- obtain objective information about people's abilities

Instructions

On the following pages are some practice questions which are similar to those you will be asked in the assessment. Completing these will help you to understand the types of questions used and gain experience in taking ability tests.

These questions are designed to assess your ability to solve diagrammatic problems. For each set of questions there is a panel and an illustration. The panel describes the effect of various operators in words. The illustration shows the operators working. Use the information in the panel and illustration to answer the questions that follow.

Your task is to identify which of the answer options presented could replace the '?' that indicates a missing INPUT, PROCESS or OUTPUT.

Some operators change the **shape** (triangle/circle), the **size** (big/small) or the **shading** (light/dark) of the symbols in the INPUT sequence. Other operators **delete**, **duplicate** or **reorder** symbols.

The effect of each operator is either **fully defined** in the panel or **partly defined**.

Where the process consists of more than one operator, the operators are applied in sequence from left to right.

Have a pen and paper to hand to indicate your answers and make notes.

The actual test is strictly timed. Try to complete each set of **4** questions within **2** minutes.

Turn to page 2 and begin.

PANEL

OPERATOR	EFFECT
	Changes shading of all figures
	Swaps 1st and 3rd figures
	Changes 1st figure (see illustration)

ILLUSTRATION

INPUT	PROCESS	OUTPUT

1

A B C D

2

A B C D

3

A B C D

4

A B C D

Answer Section Page 2

A B C D
1 ● ● ● ●

A B C D
2 ● ● ● ●

A B C D
3 ● ● ● ●

A B C D
4 ● ● ● ●

PANEL

OPERATOR	EFFECT
	Changes shading of triangles
	Changes size of circles
	Changes light figures (see illustration)

ILLUSTRATION

INPUT	PROCESS	OUTPUT

5

A B C D

6

A B C D

7

A B C D

8

A B C D

Answer Section Page 3

1 ● A ● B ● C ● D

2 ● A ● B ● C ● D

3 ● A ● B ● C ● D

4 ● A ● B ● C ● D

Try to answer any questions you did not reach in the time limit before checking your answers.

Checking your Answers

Check your answers against the correct answers at the bottom of this page. Look at any questions you got wrong and try to understand how to arrive at the correct answer. Keep in mind that most ability assessments are designed so that the questions gradually increase in difficulty and that people typically do not complete all of the questions within the time limit. If you took much longer than 4 minutes to answer the questions, try to speed up your work rate. If you finished all of the questions within the time limit but made many mistakes, try focusing more on the accuracy of your responses.

Improving your Diagrammatic Abilities

Some tips for improving diagrammatic abilities are provided below:

- Work with diagrammatic materials.
- Complete logic puzzles and games.
- Investigate analytical problems.
- Try to understand logical systems, for example, processes in IT, Engineering, Biology and Chemistry.
- Examine information presented in diagrammatic form in books and newspapers.
- Make diagrams and flow charts of processes.

Before the Session

- Follow the suggestions included in this preparation guide.
- Get a good night's sleep before the assessment.
- Make sure you are wearing any glasses, contact lenses or hearing aids you may require.
- If you have any special requirements, such as larger print versions of the test, specific lighting or seating needs, it is important that you make these known immediately to allow appropriate accommodations to be made.

During the Assessment

- Try to stay calm. Using the practice tips above should help you feel more at ease.
- Follow the instructions carefully, and ask questions if you are not sure of anything before the assessment starts.
- Read each question carefully.
- Work as quickly as you can. Do not take too much time over any one question.
- If you find a question too difficult or are unsure of an answer indicate your best choice and move on quickly.
- After an assessment always seek feedback. It is much easier to improve your abilities if you know how well you have done.

Good luck in your assessment session. We wish you every success in your career.

Answer Section Page 2 Correct Answers

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
1	●	●	●	●	2	●	●	●	●	3	●	●	●	●	4	●	●	●	●

Answer Section Page 3 Correct Answers

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
5	●	●	●	●	6	●	●	●	●	7	●	●	●	●	8	●	●	●	●