

IBT

International Benchmark Tests

Student assessment program for primary and secondary schools

Brand New Assessment IBT Reasoning

Available for Grades 3 – 10

ACER has developed a new test for the IBT program to enable schools to assess their students' reasoning and general abilities, independent of curriculum or prior knowledge. The development of reasoning and deductive skills is one of the key aims of education at all levels: schools should be preparing their students for a life of 'thinking'.

Encourage students to think outside the box

In IBT Reasoning, students are required to think critically, make logical deductions, identify connections and spot patterns. Students must demonstrate their ability to think outside the box and use their higher-order thinking skills to solve non-routine problems.

Assess students' general capabilities

The content of these test papers is based on questions that have been successfully used to identify high-achieving students for scholarship placements. Because students are assessed on their general capabilities, those students who do not perform so well on 'traditional' academic tests may excel on IBT Reasoning.

The five strands assessed in the IBT Reasoning tests are:

- **Abstract Reasoning:** the ability to see patterns and logic in pictures and diagrams
- **Kinetic Reasoning:** the ability to anticipate the movement of objects in practical situations
- **Numerical Reasoning:** the ability to use numbers to solve a variety of multi-step problems
- **Spatial Reasoning:** the ability to visualise the transformations of objects on a page
- **Verbal Reasoning:** the ability to understand how words interact with each other



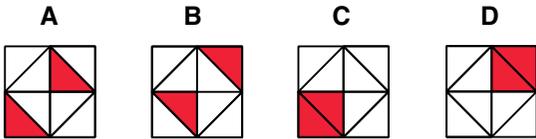
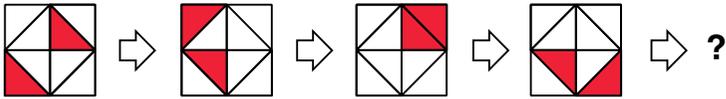


IBT Reasoning Sample Questions

Abstract Reasoning

Instructions are clear and concise.

Which picture is next in the sequence?



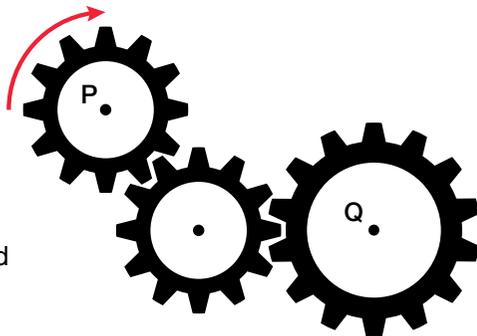
Kinetic Reasoning

Non-routine questioning forces students to think outside the box.

Cog P rotates clockwise at 10 turns per minute.

How does Cog Q rotate?

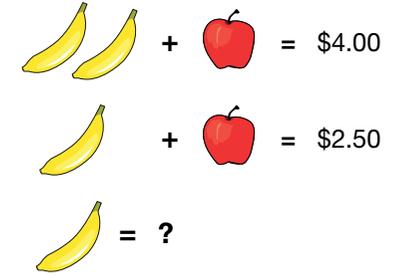
- A clockwise at the same speed
- B clockwise at a slower speed
- C anticlockwise at the same speed
- D anticlockwise at a slower speed



Numerical Reasoning

How much does one banana cost?

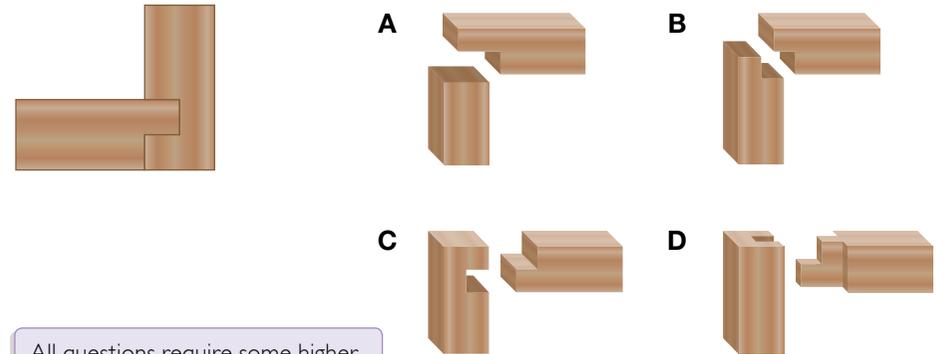
- A \$0.50
- B \$1.00
- C \$1.50
- D \$2.00



Questions assess numerical skills in a context not previously encountered. It is this 'transfer' of a routine skill to an unfamiliar context that requires students to think.

Spatial Reasoning

Which wooden pieces will make this corner shape?



All questions require some higher order thinking skills, not simply information recall.

Verbal Reasoning

kitten → cat so chick → ?

- A seal
- B fish
- C bird
- D horse

Students have to use their powers of deduction to determine the correct answer.