

**SMART EXAM RESOURCES**  
**IGCSE PHYSICS ANSWERS[ SAMPLE SOLUTIONS]**  
**MAIN TOPIC: MOTION FORCES AND ENERGY**

**Answer 10**

**1. Explanation of the correct answer (A: Use a micrometer screw gauge)**

Step 1: Understanding precision in measurement.

The micrometer screw gauge is the most suitable instrument for measuring very small dimensions, such as the thickness of a coin.

It provides accuracy up to 0.01 mm (10 micrometers), making it the most precise and reliable tool for measuring small thicknesses.

Step 2: Why a micrometer screw gauge is the best choice.

It ensures high precision with a fine screw mechanism that minimizes errors in reading.

It allows for more accurate and repeatable measurements compared to other methods.

Thus, the correct answer is A: Use a micrometer screw gauge.