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

## Answer 7

## 1. Explanation of the correct answer (A: 13 cm)

Step 1: Identify the starting and final positions.The can starts rolling at 2 cm and stops at 28 cm, covering a total distance of: 28 cm - 2 cm = 26 cm

Step 2: Calculate the circumference. The can rolls over twice, meaning the total rolled distance is twice the circumference: Total distance =  $2 \times \text{Circumference}$  $26 = 2 \times \text{Circumference}$ Circumference = 26 / 2 = 13 cm

Therefore, the correct answer is 13 cm, corresponding to option A.