



UNIVERSITY *of* CAMBRIDGE  
International Examinations

# MAURITIUS DAY 2

# SESSION 4

Question and answer session



# Day 2 Session 4 Paper 3

- Evaluation Exercise



# EVALUATION EXERCISE

- Question 2 Paper 3
- Examples from CD ROM
- Suggest four limitations to the procedure used
- Suggest four improvements to the experiment



# POSSIBLE ANSWERS TO EVALUATION EXERCISE

- Limitations:
  - Two balls not enough for a valid conclusion
  - Very large or very small balls may not follow the same law
  - Human reaction time at start and end
  - Taking one reading could give large random error
  - Temperature changes may affect the results



# POSSIBLE ANSWERS

- Improvements:
  - Use many balls of different diameters and plot a graph
  - Use light gates or sensors to improve timing
  - Use a longer tube/distance for bands B and C
  - Repeat readings of timings
  - Monitor the temperature during the experiment