

GCSE MATHEMATICS

PLC PROJECT

INSTRUCTIONS:

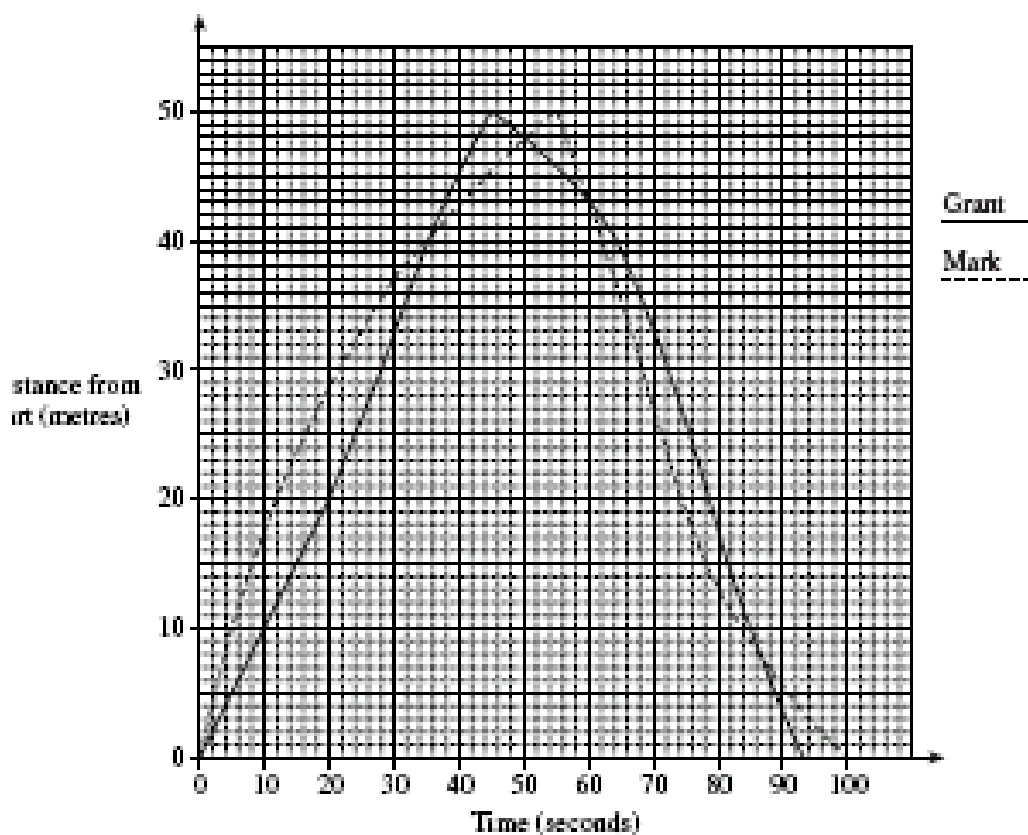
Practical Graphs 1

Content

- Conversion graphs
- Distance / time graphs
- Calculate complex average speeds from distance-time graphs
- Travel graphs

Question 1:

Grant and Mark race each other over two lengths of a 50 metre swimming pool.



(a) Who won the race?

Answer (1 mark)

(b) What was the winning time?

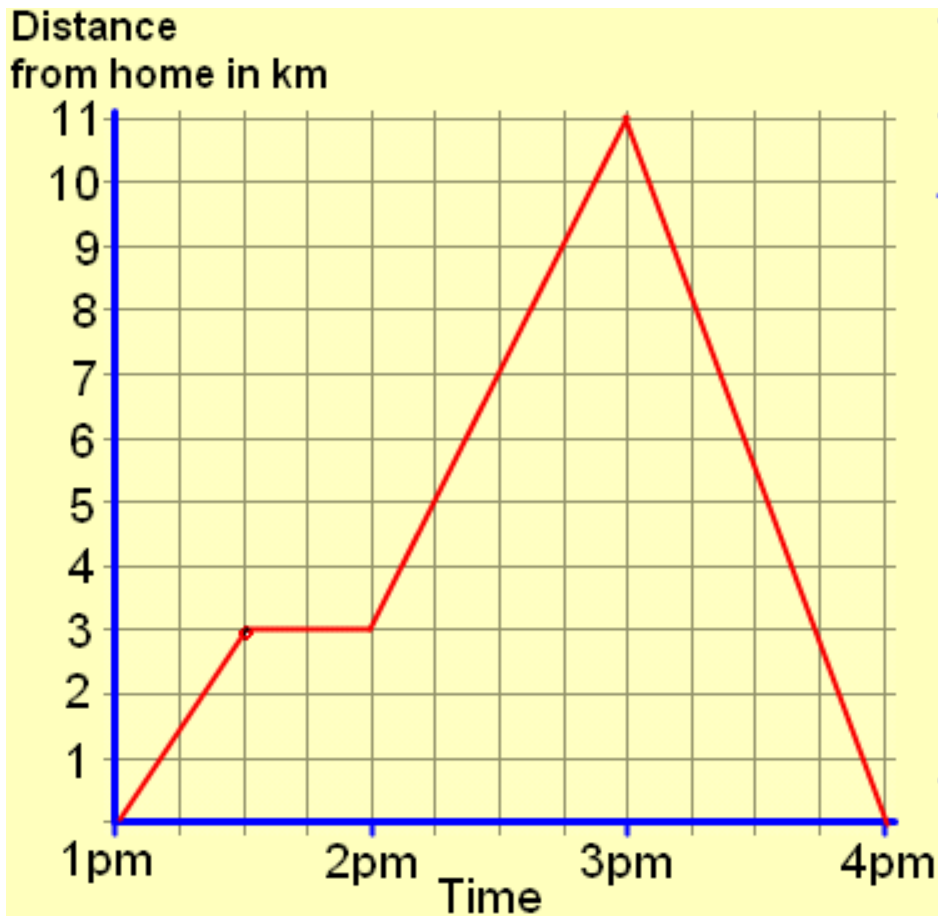
Answer seconds (1 mark)

(c) What was Grant's average speed during the first 30 seconds of the race?

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Answer m/s (2 marks)

Question 2



Tom set off from home on a bike ride. This graph shows his journey.

- At what time did he begin to rest?
- How long did he rest for?
- How far did he go in the next 15 minutes?
- How far was he from home at 3pm?
- How long did it take him to get home.
- What speed did he travel at to get home in km/h?

Total Mark / 10