

Learner assessment: Distance time and speed graphs

Objective: Interpret distance–time and speed–time graphs in context.

Calculator condition: Calculator allowed where labelled; non-calculator reasoning remains required.

Mini-assessment

Time: 20 minutes. Work independently. Calculator allowed where labelled; non-calculator reasoning remains required.

1. Retrieve the key fact or method needed for distance time and speed graphs.

Working: _____

Answer: _____

2. A runner covers 400 m in 80 s, rests for 20 s, then covers 200 m in 40 s. Find average speed for the whole journey.

Working: _____

Answer: _____

3. A distance-time graph has a downward segment. Explain what the vertical axis must represent if the graph is valid.

Working: _____

Answer: _____

4. A graph is drawn for a real context. Interpret the gradient, intercept or area as appropriate. State units and justify your answer.

Working: _____

Answer: _____

Self review: What is the strongest evidence that you met the objective?
