

## Learner assessment: Graph problems and repair

Objective: Choose graphical methods and repair errors in interpreting axes and gradients.

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 graph problems and repair.

Working: \_\_\_\_\_

Answer: \_\_\_\_\_

2. A journey has two equal 30 km legs at 30 km/h and 60 km/h. Find overall average speed.

Working: \_\_\_\_\_

Answer: \_\_\_\_\_

3. Explain why the mean of 30 and 60 is not the overall speed for equal distances.

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?

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