



Aberdare Community School
Mathematics Department

WJEC GCSE

Higher – Non Calculator
Algebra

Speed, distance, time

Name:

Set:

Date:

Teacher:

7.

- (b) A runner completed a run of 14 miles in 2 hour 20 minutes. Calculate, in miles per hour, the average speed of the runner.

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- (b) Some mobile phones can convert measurements.
Convert 600 metres per minute to kilometres per hour.
You must show all your working.

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3. One day, Aled travels on his bike to the gym.
Below is a description of his journey.

08:00	Leaves home
08:15	Stops at a friend's house on the way to the gym
08:36	Leaves his friend's house
09:00	Arrives at the gym
11:00	Leaves the gym
11:30	Arrives home

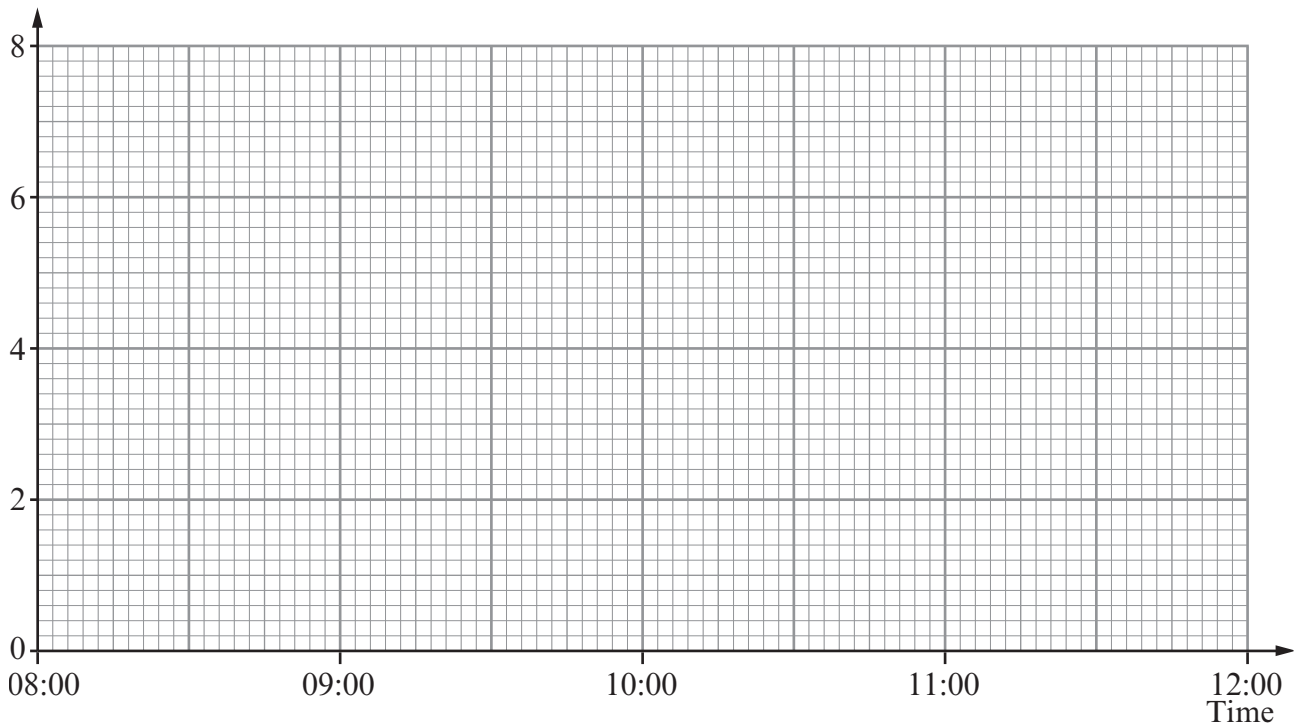
Aled's friend lives on his route to the gym.

Aled lives $2\frac{1}{2}$ miles away from his friend.

It is a further 3 miles from Aled's friend's house to the gym.

- (a) Use the information about Aled's journey to draw a travel graph on the graph paper below.

Distance, in miles,
from Aled's home



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- (b) Calculate Aled's average speed, in mph, for his journey home.

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4. Sophie is going on holiday.

(a) Sophie travels a distance of 35 miles in 2 hours 30 minutes through busy traffic.

Calculate Sophie's average speed, in miles per hour.

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