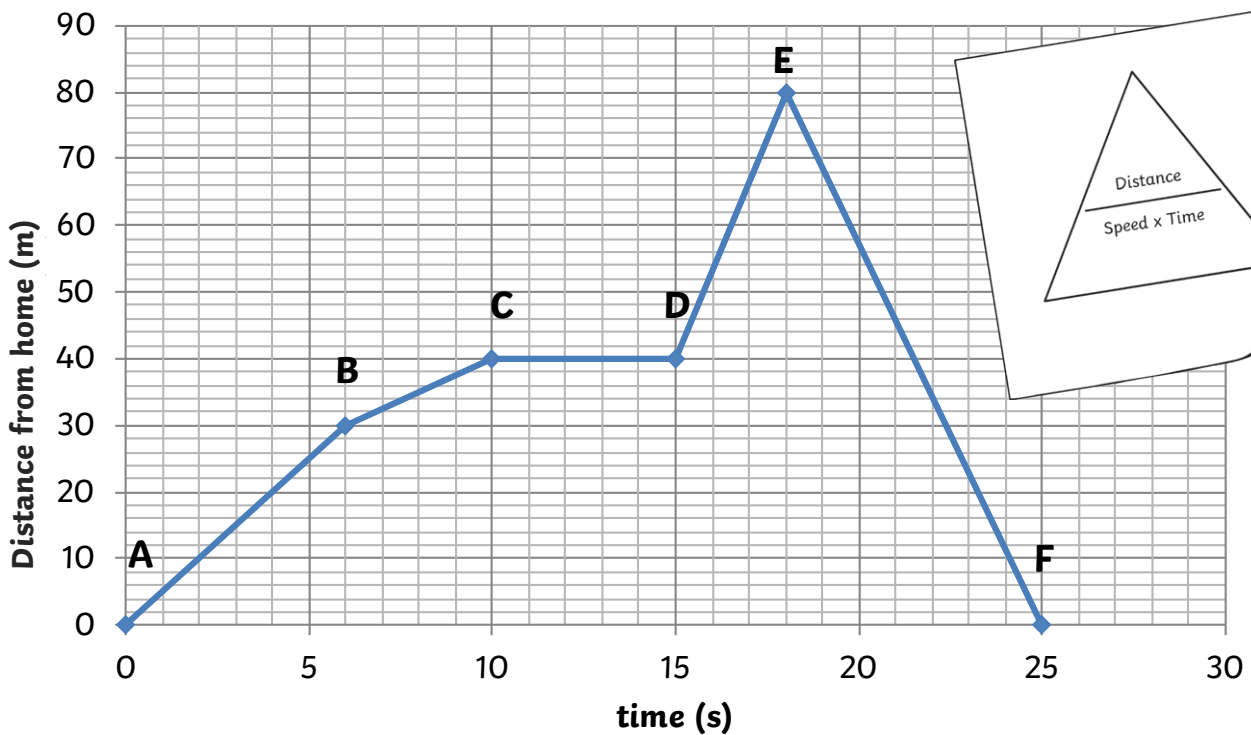


Name:	Class:	Date given:
		Date due in:

Distance Time Graphs



The graph shows the journey of a cyclist. He leaves his starting position heading east.

1a. How far has the cyclist travelled between points A and B?

1b. How far did the cyclist travel throughout his entire journey?

2a. Describe the cyclist's speed between points C and D.

2b. Describe the cyclist's speed between points D and E.

2c. Describe the cyclist's speed between points B and C.

3a. Between which two points is the cyclist travelling the fastest?

3b. Between which two points is the cyclist travelling the slowest?

4a. Calculate the average speed of the cyclist between points A and E.

4b. Calculate the average speed of the cyclist between points E and F?

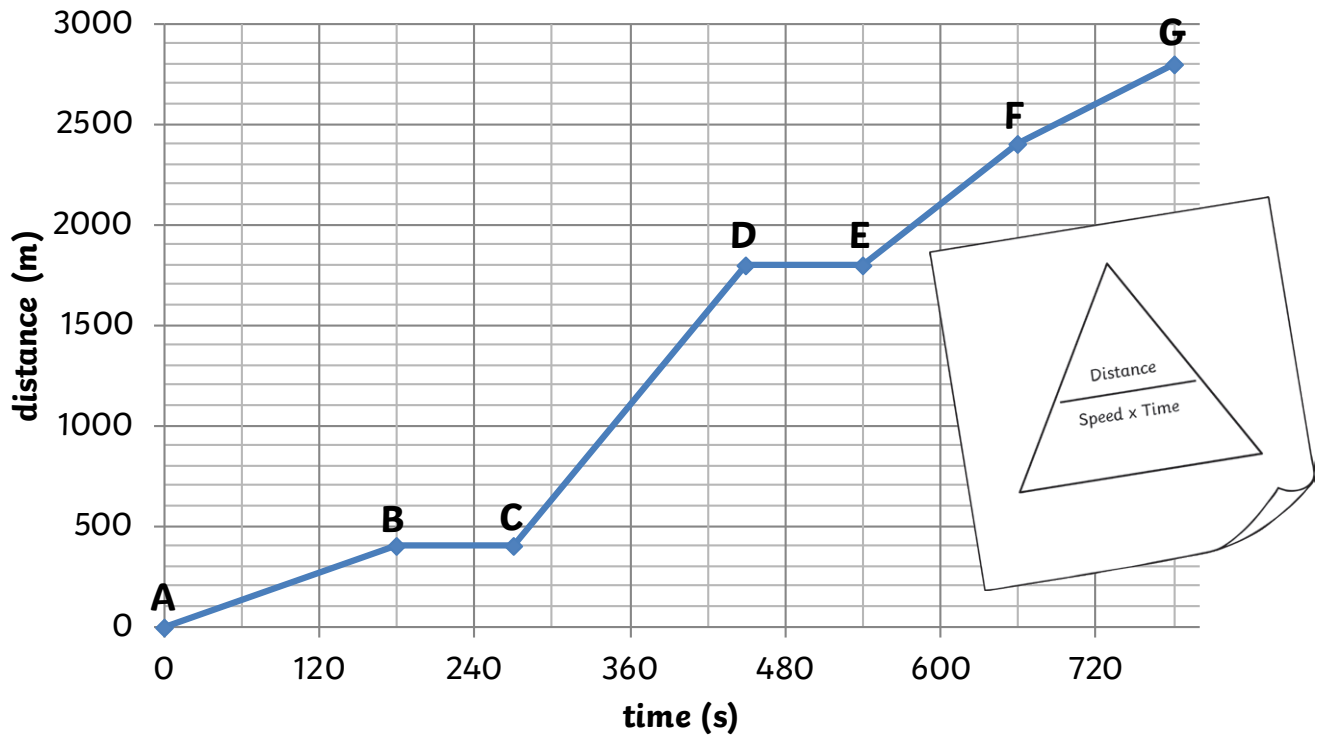
4c. Calculate the average speed through the cyclist's entire journey.

Learning Outcomes (tick if achieved)

Q1	I can extrapolate information about time from the graph.	
Q2, 3	I can extrapolate information about distance from the graph.	
Q4	I can calculate the speed (using a formula or graph).	

Name:	Class:	Date given:
		Date due in:

Distance Time Graphs 2



The graph shows the journey of a woman taking the bus into town.

1a. For the first part of her journey she walks to the bus stop. How long does this take?

1b. How long did she wait for the bus to arrive?

1c. How long does the journey take on the bus? (C to G)

2a. How far from the woman's house is the bus stop?

2b. How far from the woman's house is the town?

3a. How fast does the woman walk to the bus stop?

3b. What is the average speed of the entire bus journey?

4a. If the woman were to walk to the town, how long would it take her?

4b. Suggest what is happening between points D and E.

Learning Outcomes (tick if achieved)

Q1	I can extrapolate information about time from the graph.	
Q2	I can extrapolate information about distance from the graph.	
Q3	I can calculate the speed (using a formula or graph).	
Q4	I can make inferences about the journey.	

Distance Time Graphs Answers

1a. How far has the cyclist travelled between points A and B?

30m

1b. How far did the cyclist travel throughout his entire journey?

160m

2a. Describe the cyclist's speed between points C and D.

Stationary / zero

2b. Describe the cyclist's speed between points D and E.

Moving quickly

2c. Describe the cyclist's speed between points B and C.

Moving slowly

3a. Between which two points is the cyclist travelling the fastest?

D and E

3b. Between which two points is the cyclist travelling the slowest?

B and C

4a. Calculate the average speed of the cyclist between points A and E.

4.44 m/s

4b. Calculate the average speed of the cyclist between points E and F?

11.43 m/s

4c. Calculate the average speed through the cyclist's entire journey.

6.40 m/s

1a. For the first part of her journey she walks to the bus stop. How long does this take?

180 s

1b. How long did she wait for the bus to arrive?

90 s

1c. How long does the journey take on the bus?

510 s

2a. How far from the woman's house is the bus stop?

400m

2b. How far from the woman's house is the town?

2800m

3a. How fast does the woman walk to the bus stop?

2.22 m/s

3b. What is the average speed of the entire bus journey?

4.71 m/s

4a. If the woman were to walk to the town, how long would it take her?

1261.26 s or 21.02 minutes

4b. Suggest what is happening between points D and E.

Stationary- another bus stop, traffic lights