

Buses

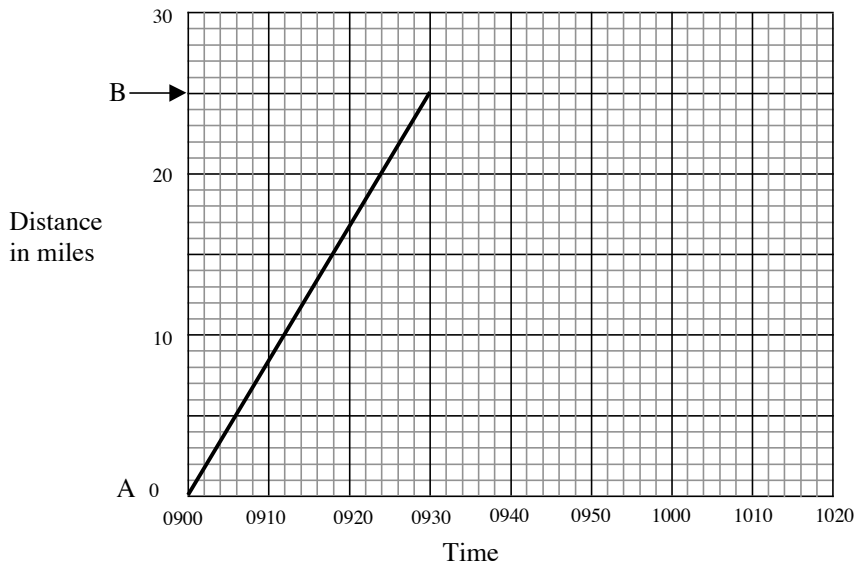
The diagram below is a distance-time graph.

1. The sloping line shows the journey of a bus from City A to City B.

The bus leaves City A at 9am (0900) and arrives at City B at 9:30am (0930)

a. How far is it from City A to City B? _____ miles

b. How long does the bus journey take? _____ minutes



2. Another bus leaves City B at 0900 and arrives at City A at 0930.

a. Draw a line on the diagram to show the journey of this second bus.

b. At what time do the two buses pass each other? _____

3. Buses leave City A and City B every 10 minutes during the morning, repeating the two journeys shown on your graph.

a. On your graph, draw a line to show the bus that leaves City A at 0920.

b. How many buses traveling in the opposite direction will this bus meet before it reaches City B? _____

Explain how you figured it out.

c. How far is the bus from City A when it meets the first bus travelling in the opposite direction? _____