Timetables and journeys

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. A bus leaves at 07:40 and arrives at 08:12. Find the travel time. [2 marks]

$20 \text{ min to } 08:00 + 12 \text{ min} = 32 \text{ min}.$

Answer: 32 min.

2. You arrive at 10:46 and the next service leaves at 11:05. Find the waiting time. [2 marks]

$14 \text{ min to } 11:00 + 5 \text{ min} = 19 \text{ min}.$

Answer: 19 min.

3. Leg 1 takes 28 min, the wait is 12 min and leg 2 takes 35 min. Find total time. [2 marks]

$28 + 12 + 35 = 75.$

Answer: 75 min, or 1 h 15 min.

4. Arrival is 14:24. Departures are 14:29, 14:36 and 14:50. A transfer needs at least 8 min. Choose the first possible departure. [2 marks]

14:29 allows 5 min and fails; 14:36 allows 12 min and works.

Answer: 14:36.

5. A service arrives at 12:20 after travelling for 45 minutes. Its departure stop is a 10-minute walk from home. What is the latest time to leave home if no extra boarding time is needed? [2 marks]

$\text{Service departure} = 12:20 - 45 \text{ min} = 11:35.$

Leave home 10 min earlier: 11:25.

Answer: 11:25.

6. A journey starts at 08:10, includes 25 min travel, 15 min wait and 40 min travel. Find arrival and check total time. [2 marks]

$25 + 15 + 40 = 80$ min.

$08:10 + 1 \text{ h } 20 \text{ min} = 09:30.$

Answer: 09:30; total 80 min.