Elapsed time in journeys

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Find the elapsed time from 09:25 to 10:05. [2 marks]

09:25 to 10:00 is 35 minutes.

Add 5 minutes: 40 minutes.

Answer: 40 minutes

2. Find the elapsed time from 13:48 to 15:06. [2 marks]

12 minutes to 14:00, then 60 minutes to 15:00, then 6 minutes.

$12 + 60 + 6 = 78$.

Answer: 78 minutes, or 1 hour 18 minutes

3. A journey starts at 11:40 and lasts 55 minutes. When does it finish? [2 marks]

20 minutes reach 12:00.

There are 35 minutes left, so the finish is 12:35.

Answer: 12:35

4. You must arrive at 16:05 after a trip of 1 hour 25 minutes. What is the latest departure time? [2 marks]

Subtract 1 hour to 15:05.

Subtract 25 minutes to 14:40.

Answer: 14:40

5. A coach leaves at 22:50 and arrives at 01:15 the next day. Find its journey time. [2 marks]

70 minutes reach midnight.

75 more minutes reach 01:15.

$70 + 75 = 145$ minutes.

Answer: 2 hours 25 minutes, or 145 minutes

6. An outing starts at 08:40. It has 30 minutes of travel, a 15-minute wait, a 45-minute activity and 20 minutes of travel home. When does it finish? [3 marks]

$30 + 15 + 45 + 20 = 110$ minutes.

$08:40 + 1\,\text{hour}\,50\,\text{minutes} = 10:30.$

Answer: 10:30