Timetables and journeys topic test

12 questions | 25 marks | 30 minutes

A handwritten review of itinerary reading, duration, connections and feasible planning.

Equivalent correct methods earn the corresponding marks.

1. Write 14:05 using am or pm. [1 mark]

Subtract 12 hours from 14:05 to get 2:05 pm.

Answer: 2:05 pm

2. Use the itinerary. Which activity comes immediately after the gallery visit? [1 mark]

Practice excursion itinerary

Activity	Start	Finish
Bus to gallery	09:10	09:35
Gallery visit	09:35	10:20
Walk to park	10:20	10:35
Park visit	10:35	11:15
Return bus	11:15	11:50

Read the next row after Gallery visit.

Answer: Walk to park

3. A bus leaves at 08:40 and arrives at 09:05. Find its journey time. [2 marks]

20 minutes reach 09:00; 5 more reach 09:05.

Answer: 25 minutes

4. Find the time from 14:37 to 16:09. [2 marks]

23 minutes reach 15:00, then 60 minutes reach 16:00, then 9 more minutes.

$23 + 60 + 9 = 92$ minutes.

Answer: 92 minutes

5. A trip leaves at 18:35 and lasts 50 minutes. Find the arrival. [2 marks]

25 minutes reach 19:00, then 25 more minutes.

Answer: 19:25

6. A coach arrives at 00:10 after a 35-minute journey. When did it leave? State the day relationship. [2 marks]

10 minutes before arrival is midnight.

25 more minutes earlier is 23:35 on the previous day.

Answer: 23:35 on the previous day

7. A train arrives at 11:18 and a connecting bus leaves at 11:40. Find the whole gap between services. [1 mark]

$11:40 - 11:18 = 22\,\text{minutes}.$

Answer: 22 minutes

8. A train arrives at 11:18. The walk to a bus takes 10 minutes. The bus leaves at 11:25. Explain whether this connection is possible. [2 marks]

$11:18 + 10\,\text{minutes} = 11:28.$

This is 3 minutes after departure.

Answer: It is not possible: ready time is 11:28.

9. An outing leaves at 09:10. Travel out takes 45 minutes, the visit takes 55 minutes and travel home takes 40 minutes. Find the return time. [3 marks]

$45 + 55 + 40 = 140 \text{ minutes} = 2 \text{ hours } 20 \text{ minutes}.$

$09:10 + 2 \text{ hours } 20 \text{ minutes} = 11:30.$

Answer: 11:30

10. You reach the stop at 09:00. Route A departs at 09:05 and arrives at 09:45. Route B departs at 09:15 and arrives at 09:40. Both are boardable. Which gives the earliest arrival, and how much earlier? [2 marks]

Compare arrival times, not departure times.

09:40 is 5 minutes before 09:45.

Answer: Route B, 5 minutes earlier.

11. A service was due to arrive at 10:19 but is 5 minutes late. A transfer needs 10 minutes. Connecting buses leave at 10:30 and 11:00; each takes 20 minutes. Find the earliest arrival at the final destination. [3 marks]

Actual first arrival is 10:24.

Ready time is 10:34, so 10:30 is missed.

Take 11:00 and add 20 minutes.

Answer: 11:20

12. Plan a feasible outing from 09:00 to 12:00. Include, in this order: 20 minutes travel, a 55-minute museum visit, a 10-minute walk, a 65-minute park visit and 30 minutes travel home. Show start and finish times for all five parts. [4 marks]

$20 + 55 + 10 + 65 + 30 = 180$ minutes.

Start each part when the previous one finishes.

The final arrival is exactly 12:00.

Answer: One plan: travel 09:00-09:20; museum 09:20-10:15; walk 10:15-10:25; park 10:25-11:30; home travel 11:30-12:00.