Checking real-world scheduling answers

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. A trip departs 08:30 at UTC+2 and arrives 13:00 at UTC+4 on the same day. Find its duration. [2 marks]

UTC departure 06:30; UTC arrival 09:00.

Difference=2 h 30 min.

Answer: 2 h 30 min.

2. A 3-hour flight leaves 14:20 at UTC+5. Give arrival time at UTC+2. [2 marks]

Departure is 09:20 UTC. Add 3 h to get 12:20 UTC. Add 2 h for the destination: 14:20.

Answer: 14:20, same day.

3. A 2 h 20 min flight leaves 22:50 Friday at UTC+1. Find arrival at UTC+3. [2 marks]

Departure is 21:50 Friday UTC. After 2 h 20 min it is 00:10 Saturday UTC. Add 3 h for the destination: 03:10 Saturday.

Answer: Saturday 03:10.

4. A plane lands at 10:15. The next flight leaves 11:05, and the minimum connection is 55 min. Does it work? [2 marks]

11:05−10:15=50 min<55 min.

Answer: No; only 50 min is available, 5 min short.

5. A 90-minute trip leaves at 23:20 Tuesday in one zone. The destination is 2 hours behind. Give arrival day/time. [2 marks]

On the origin clock, arrival is Wednesday 00:50.

Subtract 2 h for the destination: Tuesday 22:50.

Answer: Tuesday 22:50.

6. Local departure is 12:00 at UTC+4. Local arrival is 14:00 at UTC+1 on the same day. A student claims the journey took 2 hours. Check the claim. [2 marks]

Departure is 08:00 UTC; arrival is 13:00 UTC.

13:00−08:00=5 h.

Answer: It took 5 hours, not 2.