Elapsed time across midnight

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. Find the time from 23:15 to 00:05 the next day. [2 marks]

45 min to midnight+5 min=50 min.

Answer: 50 minutes.

2. Find the time from 21:40 to 02:10 the next day. [2 marks]

2 h 20 min+2 h 10 min=4 h 30 min.

Answer: 4 h 30 min.

3. Add 1 h 35 min to 23:10. [2 marks]

50 min reach midnight; another 45 min remain.

Answer: 00:45 next day.

4. A shift runs from 18:30 to 01:00 the next day. Find its duration. [2 marks]

5 h 30 min until midnight+1 h=6 h 30 min.

Answer: 6 h 30 min.

5. An event finishes at 00:20 Tuesday after lasting 2 h 45 min. When did it start? [2 marks]

Subtract 20 min to 00:00 Tuesday; another 2 h 25 min takes you back to 21:35 Monday.

Answer: 21:35 Monday.

6. Convert 2.5 hours to hours and minutes, then add it to 22:50. [2 marks]

0.5×60=30 min.

22:50+2 h 30 min=01:20 next day.

Answer: 2 h 30 min; finish 01:20 next day.