Year 8 Time and time zones - topic test

Name: _____ Date: _____

15 questions | 32 marks | 45 minutes

Work from short skills to connected reasoning and practical applications. Show enough working to explain each answer.

No calculator needed.

1. Write 7:35 pm in 24-hour time. [1 mark]

2. Write 00:40 in 12-hour time. [1 mark]

3. Write 12:15 pm in 24-hour time. [1 mark]

4. Find the time from 09:45 to 11:20 on the same day. [2 marks]

5. Find the time from 23:35 to 01:10 the next day. [2 marks]

6. A shift starts at 22:40 and lasts 3 h 35 min. Give the finishing time and day. [2 marks]

7. Use the table to find travelling time, waiting time and total elapsed time. [3 marks]

Same-clock journey

Service	Departure	Arrival
Bus	08:00	08:30
Train	08:40	09:25

8. A bus arrives at 15:18. Trains leave at 15:24 and 15:35. At least 8 minutes are required to transfer. Choose the first possible train. [2 marks]

9. At UTC+8 the time is 13:20. Find the simultaneous time at UTC+9:30. [2 marks]

10. At UTC−3 the time is 10:10. Find the simultaneous time at UTC+2. [2 marks]

11. UTC+10 reads Tuesday 02:15. Give the simultaneous day and time at UTC+1. [2 marks]

12. UTC−4 reads Friday 21:50. Give the simultaneous day and time at UTC+5:30. [2 marks]

13. A flight leaves at 09:00 from UTC+2 and lands at 14:30 in UTC+5 on the same local day. Find the flight duration. [3 marks]

14. A 2-hour flight leaves at 18:45 from UTC+9:30. Find arrival time at UTC+8. [3 marks]

15. A flight leaves 23:30 Monday at UTC+2, lasts 3 hours, and arrives in UTC+5. A connecting service leaves at 06:20 Tuesday; it needs a minimum 30-minute transfer. Does the connection work? Show the arrival time and transfer gap. [4 marks]