2.98 Timetables, Duration and the 24-Hour Clock: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A local train leaves Meadowford at 08:15 and arrives Riverton at 09:02. How long does the journey take?

- ☐ A) 47 minutes
- ☐ B) 1 hour 13 minutes
- ☐ C) 57 minutes
- ☐ D) 1 hour 47 minutes
- ☐ E) 35 minutes

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2 Buses leave Central Station every 15 minutes, starting at 09:05. What time will the third bus after 09:05 leave?

- ☐ A) 09:20
- ☐ B) 09:35
- ☐ C) 09:50
- ☐ D) 09:30
- ☐ E) 09:05

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3 Anya catches a train from Stonebridge at 07:45. It takes 1 hour to reach Oakham. Anya then waits 30 minutes for a connection, and the second train to Marlow Bay takes 1 hour 20 minutes. At what time does Anya arrive in Marlow Bay?

- ☐ A) 11:15
- ☐ B) 10:35
- ☐ C) 09:35
- ☐ D) 10:05
- ☐ E) 09:15

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4 A train leaves Meadowford at 06:45 and arrives at Highcross at 06:58. How long does the journey take?

- ☐ A) 1 hour 13 minutes
- ☐ B) 23 minutes
- ☐ C) 13 minutes
- ☐ D) 2 hours 13 minutes
- ☐ E) 3 minutes

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5 What is 12:55 am in 24-hour time?

- ☐ A) 10:55
- ☐ B) 12:55
- ☐ C) 00:25
- ☐ D) 01:55
- ☐ E) 00:55

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6 A journey: a train leaves at 14:15 and arrives at the interchange at 15:05. The connecting bus leaves at 15:35 and the bus ride takes 1 hour 10 minutes. Calculate the total time from 14:15 until arrival at the final stop. Give your answer in hours and minutes.

(3)

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7 A coach leaves at 23:15 and is scheduled to arrive at 02:00 the next day. The driver plans a 40 minute stop part way through the trip. Including the stop, how long will the trip take in hours and minutes?

(3)

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Mark scheme · 2.98 Timetables, Duration and the 24-Hour Clock: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

correct option A (47 minutes) cao	**B1**

Answer: A) 47 minutes (08:15 to 09:02 is 47 minutes).

Question 2

correct option C (09:50) cao	**B1**

Answer: C) 09:50 (09:05 is the start; the three buses after it leave at 09:20, 09:35 and 09:50, so the third bus after 09:05 leaves at 09:05 + 3 x 15 = 09:50).

Question 3

correct option B (10:35) cao	**B1**

Answer: B) 10:35

Question 4

correct option C (13 minutes) cao	**B1**

Answer: C) 13 minutes

Question 5

correct option E (00:55) cao	**B1**

Answer: E) 00:55

Question 6

calculates train time 14:15 to 15:05 = 50 minutes	**M1**
calculates waiting time 15:05 to 15:35 = 30 minutes and bus time 70 minutes seen	**M1**
2 hours 30 minutes cao	**A1**

Answer: 2 hours 30 minutes (train 50 min + wait 30 min + bus 70 min = 150 minutes = 2h30).

Question 7

recognises crossing midnight and computes journey time 23:15 to 02:00 = 2 hours 45 minutes	**M1**
adds 40 minute stop to journey time	**M1**
3 hours 25 minutes cao	**A1**

Answer: 3 hours 25 minutes (travel 2h45 plus 40 min stop = 3h25).

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