2.98 Timetables, Duration and the 24-Hour Clock: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A coach leaves Hartley at 14:00. The journey to Stonebridge takes 45 minutes. At what time does it arrive? Give your answer in 24-hour time.

- ☐ A) 14:45
- ☐ B) 15:45
- ☐ C) 14:35
- ☐ D) 13:45
- ☐ E) 14:55

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2 Leo catches a train from Kingsfield at 06:10. It takes 1 hour 5 minutes to reach Marlow Bay. Leo then waits 15 minutes for a connection, and the second train to Stonebridge takes 1 hour 30 minutes. At what time does Leo arrive in Stonebridge?

- ☐ A) 07:55
- ☐ B) 07:30
- ☐ C) 09:00
- ☐ D) 09:40
- ☐ E) 08:45

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3 A train leaves Highcross at 09:27 and arrives at Meadowford at 09:56. How long does the journey take?

- ☐ A) 1 hour 29 minutes
- ☐ B) 29 minutes
- ☐ C) 2 hours 29 minutes
- ☐ D) 19 minutes
- ☐ E) 39 minutes

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4 Buses leave Bramley bus station every 12 minutes. The first bus leaves at 09:40. At what time does bus number 6 leave?

- [ ] A) 11:40
- [ ] B) 11:04
- [ ] C) 10:52
- [ ] D) 10:40
- [ ] E) 10:28

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5 What is 12:50 am in 24-hour time?

- [ ] A) 00:50
- [ ] B) 12:50
- [ ] C) 00:20
- [ ] D) 23:50
- [ ] E) 10:50

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6 A coach leaves Riverton at 11:20. The journey to Westgate takes 50 minutes. At what time does it arrive? Give your answer in 24-hour time.

- [ ] A) 13:10
- [ ] B) 12:50
- [ ] C) 11:10
- [ ] D) 12:20
- [ ] E) 12:10

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7 Noah catches a train from Hartley at 11:00. It takes 1 hour 5 minutes to reach Ashby. Noah then waits 10 minutes for a connection, and the second train to Highcross takes 1 hour 10 minutes. At what time does Noah arrive in Highcross?

- [ ] A) 14:05
- [ ] B) 13:15
- [ ] C) 14:25
- [ ] D) 13:25
- [ ] E) 12:15

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8 A train leaves Westgate at 07:48 and arrives at Hartley at 10:31. How long does the journey take?

- [ ] A) 3 hours 43 minutes
- [ ] B) 3 hours 17 minutes
- [ ] C) 2 hours 43 minutes
- [ ] D) 2 hours 53 minutes
- [ ] E) 4 hours 43 minutes

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9 Buses leave Meadowford bus station every 20 minutes. The first bus leaves at 12:40. At what time does bus number 7 leave?

- [ ] A) 15:00
- [ ] B) 14:40
- [ ] C) 14:20
- [ ] D) 15:40
- [ ] E) 15:20

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10 A coach leaves Meadowford at 15:15. The journey to Stonebridge takes 2 hours 20 minutes. At what time does it arrive? Give your answer in 24-hour time.

- [ ] A) 16:35
- [ ] B) 17:35
- [ ] C) 16:55
- [ ] D) 18:35
- [ ] E) 17:25

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11 Esme catches a train from Hartley at 06:50. It takes 1 hour 20 minutes to reach Ashby. Esme then waits 30 minutes for a connection, and the second train to Marlow Bay takes 50 minutes. At what time does Esme arrive in Marlow Bay?

- [ ] A) 09:30
- [ ] B) 08:40
- [ ] C) 09:00
- [ ] D) 10:30
- [ ] E) 09:20

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12 A train leaves Westgate at 06:20 and arrives at Riverton at 07:52. How long does the journey take?

- ☐ A) 1 hour 42 minutes
- ☐ B) 1 hour 22 minutes
- ☐ C) 2 hours 32 minutes
- ☐ D) 2 hours 12 minutes
- ☐ E) 1 hour 32 minutes

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13 What is 1:45 am in 24-hour time?

- ☐ A) 13:45
- ☐ B) 00:45
- ☐ C) 11:45
- ☐ D) 01:45
- ☐ E) 01:15

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14 A coach leaves Oakham at 10:30. The journey to Riverton takes 1 hour 5 minutes. At what time does it arrive? Give your answer in 24-hour time.

- ☐ A) 11:35
- ☐ B) 11:25
- ☐ C) 10:35
- ☐ D) 12:15
- ☐ E) 12:35

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15 Buses on the X5 route start at 06:10 and run every 20 minutes. What time will the seventh bus after 06:10 leave? Give the time in 24-hour format.

(2)

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16 Sana catches a train from Oakham at 15:35. It takes 40 minutes to reach Meadowford. Sana then waits 10 minutes for a connection, and the second train to Riverton takes 40 minutes. At what time does Sana arrive in Riverton?

- [ ] A) 16:25
- [ ] B) 17:05
- [ ] C) 18:05
- [ ] D) 16:55
- [ ] E) 17:45

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17 A film starts at 06:54 and finishes at 08:19. How long is the film?

- [ ] A) 2 hours 35 minutes
- [ ] B) 1 hour 35 minutes
- [ ] C) 2 hours 45 minutes
- [ ] D) 2 hours 25 minutes
- [ ] E) 1 hour 25 minutes

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18 Buses leave Meadowford bus station every 40 minutes. The first bus leaves at 12:00. At what time does bus number 6 leave?

- [ ] A) 14:20
- [ ] B) 16:00
- [ ] C) 15:20
- [ ] D) 16:20
- [ ] E) 14:40

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19 What is 23:05 in 12-hour time?

- [ ] A) 11:05 pm
- [ ] B) 11:05 am
- [ ] C) 10:05 pm
- [ ] D) 12:05 pm
- [ ] E) 1:05 pm

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20 Isla catches a train from Marlow Bay at 09:45. It takes 30 minutes to reach Oakham. Isla then waits 30 minutes for a connection, and the second train to Hartley takes 25 minutes. At what time does Isla arrive in Hartley?

- [ ] A) 10:45
- [ ] B) 11:00
- [ ] C) 11:50
- [ ] D) 11:10
- [ ] E) 10:40

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21 A train leaves Kingsfield at 08:13 and arrives at Highcross at 10:26. How long does the journey take?

- [ ] A) 1 hour 13 minutes
- [ ] B) 2 hours 13 minutes
- [ ] C) 3 hours 33 minutes
- [ ] D) 3 hours 13 minutes
- [ ] E) 2 hours 3 minutes

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22 Buses leave Hartley bus station every 12 minutes. The first bus leaves at 13:55. At what time does bus number 5 leave?

- [ ] A) 15:07
- [ ] B) 14:55
- [ ] C) 15:43
- [ ] D) 14:31
- [ ] E) 14:43

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23 A coach leaves Ashby at 20:35. The journey to Hartley takes 15 minutes. At what time does it arrive? Give your answer in 24-hour time.

- [ ] A) 20:40
- [ ] B) 21:50
- [ ] C) 20:50
- [ ] D) 19:50
- [ ] E) 21:00

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24 Leo catches a train from Kingsfield at 15:50. It takes 1 hour 25 minutes to reach Highcross. Leo then waits 40 minutes for a connection, and the second train to Marlow Bay takes 50 minutes. At what time does Leo arrive in Marlow Bay?

- ☐ A) 17:20
- ☐ B) 18:45
- ☐ C) 18:05
- ☐ D) 17:55
- ☐ E) 19:45

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25 Buses leave Ashby bus station every 12 minutes. The first bus leaves at 10:50. At what time does bus number 9 leave?

- ☐ A) 12:14
- ☐ B) 13:26
- ☐ C) 11:46
- ☐ D) 12:26
- ☐ E) 12:38

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26 A bus leaves Stop A at 09:50 and arrives Stop B at 10:28. It returns by leaving Stop B at 10:45 and arriving back at Stop A at 11:23. Work out the total time the bus spends moving during these two runs and the length of the layover at Stop B.

(4)

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27 A flight leaves at 06:55. Flight time is 3 hours 40 minutes. At what time does it land (24-hour clock)?

(2)

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Mark scheme · 2.98 Timetables, Duration and the 24-Hour Clock: 30-minute Pack

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

Question 1

correct option A (14:45) cao **B1**

Answer: A) 14:45

Question 2

correct option C (09:00) cao **B1**

Answer: C) 09:00

Question 3

correct option B (29 minutes) cao **B1**

Answer: B) 29 minutes

Question 4

correct option D (10:40) cao **B1**

Answer: D) 10:40

Question 5

correct option A (00:50) cao **B1**

Answer: A) 00:50

Question 6

correct option E (12:10) cao **B1**

Answer: E) 12:10

Question 7

correct option D (13:25) cao **B1**

Answer: D) 13:25

Question 8

correct option C (2 hours 43 minutes) cao **B1**

Answer: C) 2 hours 43 minutes

Question 9

correct option B (14:40) cao **B1**

Answer: B) 14:40

Question 10

correct option B (17:35) cao **B1**

Answer: B) 17:35

Question 11

correct option A (09:30) cao **B1**

Answer: A) 09:30

Question 12

correct option E (1 hour 32 minutes) cao **B1**

Answer: E) 1 hour 32 minutes

Question 13

correct option D (01:45) cao **B1**

Answer: D) 01:45

Question 14

correct option A (11:35) cao **B1**

Answer: A) 11:35

Question 15

adds 7 intervals of 20 minutes (7 x 20 = 140 minutes) or shows method to add intervals **M1**

08:30 cao **A1**

Answer: 08:30 (06:10 + 140 minutes = 06:10 + 2 hours 20 minutes = 08:30).

Question 16

correct option B (17:05) cao **B1**

Answer: B) 17:05

Question 17

correct option E (1 hour 25 minutes) cao **B1**

Answer: E) 1 hour 25 minutes

Question 18

correct option C (15:20) cao **B1**

Answer: C) 15:20

Question 19

correct option A (11:05 pm) cao **B1**

Answer: A) 11:05 pm

Question 20

correct option D (11:10) cao **B1**

Answer: D) 11:10

Question 21

correct option B (2 hours 13 minutes) cao **B1**

Answer: B) 2 hours 13 minutes

Question 22

correct option E (14:43) cao **B1**

Answer: E) 14:43

Question 23

correct option C (20:50) cao **B1**

Answer: C) 20:50

Question 24

correct option B (18:45) cao **B1**

Answer: B) 18:45

Question 25

correct option D (12:26) cao **B1**

Answer: D) 12:26

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Question 26

calculates outward travel 09:50 to 10:28 = 38 minutes	**M1**
calculates return travel 10:45 to 11:23 = 38 minutes	**M1**
calculates layover 10:28 to 10:45 = 17 minutes	**M1**
total moving time 76 minutes and layover 17 minutes cao	**A1**

Answer: Total moving time 76 minutes (38 + 38) and layover 17 minutes (10:28 to 10:45).

Question 27

adds hours and minutes correctly (06:55 + 3h 40m seen) oe	**M1**
10:35 cao	**A1**

Answer: 10:35 (06:55 + 3h 40m = 10:35).

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