



1.3D Time: Fluency and Exam Drill

EDEXCEL Edexcel 1MA1 · Calculator allowed · about 40 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1 Write down 7:45 pm in 24-hour clock notation.

(Total for Question 1 is 1 mark)

- 2 Write down 00:05 in 12-hour clock notation. Include am or pm.

(Total for Question 2 is 1 mark)

- 3 Work out the time 6:20 plus 45 minutes.

(Total for Question 3 is 1 mark)

- 4 Work out the time 14:10 minus 50 minutes.

(Total for Question 4 is 1 mark)

- 5 How many minutes are there in 2 hours 35 minutes?

(Total for Question 5 is 1 mark)

- 6 A film starts at 23:20 and finishes at 01:10 the next day. Work out the length of the film.

(Total for Question 6 is 2 marks)

- 7 A bus leaves at 09:15 and the journey takes 2 hours 40 minutes. At what time does the bus arrive?

(Total for Question 7 is 1 mark)

- 8 A train arrives at 15:50 after a journey lasting 3 hours 15 minutes. Work out the time the train departed.

(Total for Question 8 is 2 marks)

- 9 A flight departs at 22:50 and has a flying time of 4 hours 30 minutes. Work out the arrival time in 24-hour clock.

(Total for Question 9 is 2 marks)

- 10 A ferry leaves at 23:40. The next ferry leaves at 01:20. How long does a passenger wait for the next ferry?

(Total for Question 10 is 1 mark)

- 11 Write down 12:00 noon in 24-hour clock notation.

(Total for Question 11 is 1 mark)

- 12 Write down 12:00 midnight in 24-hour clock notation.

(Total for Question 12 is 1 mark)

- 13** A train leaves at 11:55 am and arrives at 14:05. Work out the duration of the journey.

(Total for Question 13 is 2 marks)

- 14** A bus service starts at 07:30 and runs every 25 minutes thereafter. A passenger arrives at the stop at 09:12. How many minutes must the passenger wait for the next bus?

(Total for Question 14 is 2 marks)

- 15** Priya can travel from Town X to Town Z in two ways.
Direct: depart X 17:40, journey time 1 hour 50 minutes.
Via Town Y: depart X 17:20 to Y (journey 40 minutes), then a connection Y to Z departs 18:15 and takes 35 minutes.
Work out the arrival time for each route and state which route gets Priya to Town Z earlier.

(Total for Question 15 is 3 marks)

- 16** An overnight service departs Monday at 23:55 and the scheduled duration is 18 hours 40 minutes. On which day and at what time does it arrive?

(Total for Question 16 is 3 marks)

Mark scheme · 1.3D Time: Fluency and Exam Drill

Question 1

- **B1** 19:45 cao
- **Answer:** 19:45

Question 2

- **B1** 12:05 am cao
- **Answer:** 12:05 am

Question 3

- **B1** 7:05 cao
- **Answer:** 7:05

Question 4

- **B1** 13:20 cao
- **Answer:** 13:20

Question 5

- **B1** 155 minutes cao
- **Answer:** 155 minutes

Question 6

- **M1** calculate minutes across midnight, e.g. 23:20 to 00:00 = 40, then to 01:10 = 70, total 110 minutes oe
- **A1** 1 hour 50 minutes cao
- **Answer:** 1 hour 50 minutes

Question 7

- **B1** 11:55 cao
- **Answer:** 11:55

Question 8

- **M1** subtract duration from arrival time, e.g. 15:50 - 3:15 oe
- **A1** 12:35 cao
- **Answer:** 12:35

Question 9

- **M1** add duration crossing midnight, e.g. 22:50 + 4:30 oe
- **A1** 03:20 cao
- **Answer:** 03:20

Question 10

- **B1** 1 hour 40 minutes cao
- **Answer:** 1 hour 40 minutes

Question 11

- **B1** 12:00 cao
- **Answer:** 12:00

Question 12

- **B1** 00:00 cao
- **Answer:** 00:00

Question 13

- **M1** subtract start from end, e.g. $14:05 - 11:55$ oe
- **A1** 2 hours 10 minutes cao
- **Answer: 2 hours 10 minutes**

Question 14

- **M1** identify next bus time after 09:12 is 09:35 (07:30, 07:55, 08:20, 08:45, 09:10, 09:35) oe
- **A1** 23 minutes cao
- **Answer: 23 minutes**

Question 15

- **M1** calculate direct arrival: $17:40 + 1:50 = 19:30$ oe
- **M1** calculate via-Y arrival: $17:20 + 0:40 = 18:00$, connect $18:15 + 0:35 = 18:50$ oe
- **B1** state which arrives earlier: via Y (18:50) is earlier than direct (19:30) oe
- **Answer: Direct arrives 19:30; via Y arrives 18:50. Via Y arrives earlier.**

Question 16

- **M1** add 18 hours giving next-day time: $23:55 + 18:00 =$ next day 17:55 oe
- **M1** add remaining 40 minutes to give 18:35 oe
- **A1** arrives Tuesday 18:35 cao
- **Answer: Tuesday 18:35**