2.9-2 Time and Timetables: Practice Set 2: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 At Cranbourne Academy, the school day runs as follows:
Registration: 08:40 to 08:55
Morning lessons: 08:55 to 12:05
Lunch: 12:05 to 12:50
Afternoon lessons: 12:50 to 15:35

(a) How many minutes long is registration? **(1)**

(b) How long, in hours and minutes, are the morning lessons (08:55 to 12:05)? **(1)**

.....

(c) Find the total length of the whole school day, from 08:40 to 15:35, in hours and minutes. **(2)**

.....

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2 A train timetable shows:
Wrenford depart 08:24
Silverstowe arrive 08:52, depart 08:57
Beckmoor arrive 09:20, depart 09:24
Thackley arrive 09:51

(a) How long does the whole journey take, from departing Wrenford to arriving at Thackley? **(2)**

.....

(b) How long is the train stopped at Silverstowe? **(1)**

.....

(c) How long does the train take to travel from Silverstowe to Beckmoor (from departure at Silverstowe to arrival at Beckmoor)? **(1)**

.....

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3 A cyclist travels 60 km at an average speed of 20 km/h.

(a) How long does the journey take? **(1)**

.....

(b) The cyclist sets off at 07:50. Using your answer to part a, at what time does she finish? **(1)**

.....

(c) On the return journey, she covers the same 60 km in 2 hours 30 minutes. What is her average speed, in km/h, on the return journey? **(2)**

.....

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4 A river ferry departs every 25 minutes, starting at 07:00. The last ferry of the day departs at 19:05.

(a) How many ferries depart in total during the day, from 07:00 to 19:05 inclusive? **(2)**

.....

(b) Zainab arrives at the port at 12:47. How many minutes must she wait for the next ferry? **(2)**

.....

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5 In a swimming gala, three swimmers' 100 m times are recorded to the nearest second: Deepa 92 seconds, Callum 1 minute 28 seconds, Nia 87 seconds.

(a) Write Callum's time in seconds. **(1)**

(b) Put the three swimmers in order from fastest to slowest. **(2)**

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6 Anika has a piano exam at 11:15. It takes her 12 minutes to walk from the station to the exam venue, and the train journey itself takes 35 minutes. Trains depart from her local station every 15 minutes, starting at 08:00 (so at 08:00, 08:15, 08:30, and so on).

(a) What is the latest time the train must arrive at its final station for Anika to have enough time to walk to her exam by 11:15? **(2)**

.....

(b) Using your answer to part a and the train timetable, find the latest train Anika can catch to arrive on time. **(3)**

.....

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7 Ravi is planning a journey using a coach and a connecting train.
Coach timetable (Foxwell to Chalcombe Bus Station): coaches depart Foxwell at 06:45, 07:30, 08:15 and 09:00 (every 45 minutes). Each coach journey takes 52 minutes.
Train timetable (Chalcombe to Brindley): trains depart Chalcombe at 07:35, 08:20, 09:05 and 09:50 (every 45 minutes). Each train journey takes 33 minutes.

(a) Ravi catches the 07:30 coach from Foxwell. At what time does he arrive at Chalcombe Bus Station? **(1)**

.....

(b) Which train to Brindley can he catch, and at what time will he arrive in Brindley? Show your working. **(3)**

.....

(c) On another day, the same 07:30 coach is delayed by 50 minutes. Does Ravi still catch the same train to Brindley as in part b? If not, find his new arrival time in Brindley, assuming he catches the next available train after the coach arrives. **(3)**

.....

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8 A parcel courier collects parcels from a depot at 06:50. The delivery route takes 3 hours 35 minutes, followed by a 25 minute break, then a second route taking 2 hours 50 minutes. At what time does the courier finish the second route?

- ☐ A) 13:15
- ☐ B) 13:30
- ☐ C) 13:50
- ☐ D) 13:40
- ☐ E) 14:05

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9 Convert 105 minutes into hours and minutes.

(1)

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10 A leisure centre's badminton court is booked out as follows: Court A 09:00 to 10:00, Court B 10:00 to 11:00, Court C 11:00 to 12:00. Which court is booked at 10:30?

- ☐ A) Court A
- ☐ B) Court B
- ☐ C) Court C
- ☐ D) None of the courts
- ☐ E) All three courts

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Mark scheme · 2.9-2 Time and Timetables: Practice Set 2: 30-minute Pack

Question 1

(a) 15 minutes cao **B1**

(a) Answer: 15 minutes

(b) 3 hours 10 minutes oe **B1**

(b) Answer: 3 h 10 min

(c) Correct method, e.g. 08:40 to 14:40 is 6 hours, then adds the remaining 55 minutes to 15:35 **M1**

(c) 6 hours 55 minutes cao **A1**

(c) Answer: 6 hours 55 minutes

Question 2

(a) Correct method finding the total elapsed time from 08:24 to 09:51 **M1**

(a) 1 hour 27 minutes cao **A1**

(a) Answer: 1 h 27 min

(b) 5 minutes cao **B1**

(b) Answer: 5 minutes

(c) 23 minutes cao **B1**

(c) Answer: 23 minutes

Question 3

(a) 3 hours cao **B1**

(a) Answer: 3 hours

(b) 10:50 cao, ft from (a) **B1**

(b) Answer: 10:50

(c) Converts 2 hours 30 minutes to 2.5 hours (oe) **M1**

(c) 24 km/h cao **A1**

(c) Answer: 24 km/h

Question 4

(a) Finds the total time span 07:00 to 19:05 is 12 h 5 min (725 minutes) and divides by 25 **M1**

(a) 30 cao **A1**

(a) Answer: 30 ferries

(b) Identifies the next departure after 12:47 as 12:50, using correct multiples of 25 minutes from 07:00 **M1**

(b) 3 minutes cao **A1**

(b) Answer: 3 minutes

Question 5

(a) 88 seconds cao **B1**

(a) Answer: 88 seconds

(b) Compares all three times correctly in seconds (92, 88, 87) **M1**

(b) Nia, Callum, Deepa cao **A1**

(b) Answer: Nia (87 s), Callum (88 s), Deepa (92 s)

Question 6

(a) Correct method: 11:15 minus 12 minutes **M1**

(a) 11:03 cao **A1**

(a) Answer: 11:03

(b) Finds the latest departure time by subtracting the 35 minute journey from 11:03, giving 10:28 (ft) **M1**

(b) Lists or identifies departure times at 15 minute intervals up to 10:28, e.g. ..., 09:45, 10:00, 10:15, 10:30 **M1**

(b) 10:15 cao, ft **A1**

(b) Answer: 10:15

Question 7

(a) 08:22 cao **B1**

(a) Answer: 08:22

(b) Identifies that the 08:20 train has already departed before he arrives at 08:22, ft **M1**

(b) Identifies the next available train as the 09:05 service **M1**

(b) 09:38 cao (09:05 + 0:33) **A1**

(b) Answer: 09:05 train; arrives in Brindley at 09:38

(c) Finds the delayed coach arrival at Chalcombe: 08:22 + 0:50 = 09:12, ft **M1**

(c) Identifies that the 09:05 train has now already departed, so the next train is at 09:50 **M1**

(c) 10:23 cao (09:50 + 0:33) **A1**

(c) Answer: No; he now arrives at Chalcombe at 09:12, missing the 09:05 train, so he catches the 09:50 train and arrives in Brindley at 10:23.

Question 8

D) 13:40 - correct, after adding both routes and the break **B1**

Answer: D) 13:40

Question 9

1 hour 45 minutes oe **B1**

Answer: 1 h 45 min

Question 10

B) Court B - correct, Court B runs 10:00 to 11:00 **B1**

Answer: B) Court B

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