2.10-4 Measures and Time: Practice Set 4: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A school play begins at 18:50 and ends at 20:25. How long does the play last?

(2)

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2 Grace cycles 2.35 km to the park, then a further 480 m to her friend's house. What is the total distance she cycles, in metres?

(2)

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3 A rectangular table has a length of 1.2 m and a width of 45 cm. Find the perimeter of the table in centimetres.

(2)

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4 A bus is scheduled to arrive at a stop at 08:52 but is running 27 minutes late. At what time does it actually arrive?

(2)

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5 A coach travels 108 miles in 2 hours at a steady speed. What is its average speed in miles per hour?

(2)

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6 A delivery lorry can carry a maximum load of 3.2 tonnes. It is already carrying 1850 kg of boxes. How many more kilograms can be loaded before the maximum is reached?

(3)

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7 A train timetable shows a departure time of 21:05. Using the 12-hour clock, what time is this?

- ☐ A) 9:05 am
- ☐ B) 9:05 pm
- ☐ C) 9:50 pm
- ☐ D) 11:05 pm
- ☐ E) 7:05 pm

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8 A cyclist travels 52 km at an average speed of 16 km/h. How long does the journey take? Give your answer in hours and minutes.

(3)

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9 A car park charges 60p for every 20 minutes, or part of a 20 minute period. Mr Boateng parks his car from 10:05 until 11:52.

(a) How long, in minutes, does Mr Boateng park for? **(1)**

.....

(b) How much does he pay to park? **(3)**

.....

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10 A recipe for a fruit cake says: 'For a cake weighing 800 g, bake for 1 hour 20 minutes.' The baking time is directly proportional to the mass of the cake mixture. Aisha makes a larger cake weighing 1200 g using the same recipe. Using the same rate, how long should she bake it for? Give your answer in hours and minutes.

(4)

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11 Isabelle's wedding ceremony is due to start at 13:00. The photographer needs a 25 minute session with the bridal party, which must finish by the time the ceremony starts. Guests should be seated 15 minutes before the photographer's session begins. What time should guests arrive to be seated on time?

(4)

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12 Write 3 minutes and 15 seconds as a total number of seconds.

(1)

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13 How many days are there in 7 weeks?

(1)

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14 Which unit would be the most sensible for measuring the mass of a single paperclip?

- ☐ A) tonnes
- ☐ B) kilograms
- ☐ C) grams
- ☐ D) litres
- ☐ E) millilitres

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Mark scheme · 2.10-4 Measures and Time: Practice Set 4: 30-minute Pack

Question 1

Correct method, e.g. 18:50 to 19:50 is 60 minutes, 19:50 to 20:25 is 35 minutes	**M1**
1 hour 35 minutes cao	**A1**

Answer: 1 hour 35 minutes

Question 2

2.35 km converted to 2350 m (oe)	**M1**
2830 m cao	**A1**

Answer: 2830 m

Question 3

1.2 m converted to 120 cm and correct method 2 x (120 + 45) (oe)	**M1**
330 cm cao	**A1**

Answer: 330 cm

Question 4

Correct method, e.g. 8 minutes reaches 09:00, leaving 19 minutes more	**M1**
09:19 cao	**A1**

Answer: 09:19

Question 5

108 / 2 (oe)	**M1**
54 mph cao	**A1**

Answer: 54 mph

Question 6

Converts 3.2 tonnes to 3200 kg	**M1**
Subtracts 1850 from their 3200 (oe)	**M1**
1350 kg cao	**A1**

Answer: 1350 kg

Question 7

B) 9:05 pm cao	**B1**

Answer: 9:05 pm

Question 8

Correct method time = distance / speed (52 / 16)	**M1**
52 / 16 = 3.25 evaluated correctly (oe)	**M1**
3 hours 15 minutes cao	**A1**

Answer: 3 hours 15 minutes

Question 9

(a) 107 minutes cao	**B1**

(a) Answer: 107 minutes

(b) 107 / 20 = 5.35 (oe), ft from part a	**M1**
(b) Rounds up to 6 whole 20-minute periods, since part of a period is charged in full	**M1**
(b) £3.60 cao (ft)	**A1**

(b) Answer: £3.60

Question 10

Converts 1 hour 20 minutes to 80 minutes	**M1**
Finds the scale factor 1200 / 800 = 1.5 (oe unitary method)	**M1**
80 x 1.5 (oe) evaluated	**M1**
2 hours (120 minutes) cao	**A1**

Answer: 2 hours (120 minutes)

Question 11

Identifies that the photographer's session must finish at 13:00, so begins 25 minutes earlier	**M1**
13:00 - 25 minutes = 12:35 (oe)	**M1**
12:35 - 15 minutes (oe)	**M1**
12:20 cao	**A1**

Answer: 12:20

Question 12

195 (seconds) cao	**B1**

Answer: 195 seconds

Question 13

49 (days) cao	**B1**

Answer: 49 days

Question 14

C) grams cao	**B1**

Answer: grams

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