9.4 Statistics: Line Graphs and Timetables: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A coach leaves at 13:39 and arrives at 17:02.

How many minutes does it take?

Answer: ___ minutes

(2)

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2 A school club survey is shown.

Boys: 21 chose Chess, 13 chose Drama
Girls: 19 chose Chess, 6 chose Drama

How many pupils chose Chess?

Answer: ___

(2)

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3 A train finishes at 12:29 after taking 5 hours 1 minutes.

What time did it start? Write your answer as a 24-hour clock time.

Answer: ___

(2)

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4 A line graph shows the height of a plant in cm at different times. The points on the graph are: 8:00 = 6, 9:00 = 7, 10:00 = 9, 11:00 = 10, 12:00 = 10, 13:00 = 12.

By how much did it change between 9:00 and 11:00? Write a positive number.

Answer: ___ cm

(2)

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5 A coach leaves at 13:02 and takes 3 hours 35 minutes.

What time does it finish? Write your answer as a 24-hour clock time.

Answer: ___

(2)

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6 In a class of 31 pupils, 8 like cheese, 11 like ham and 6 like both.

How many pupils like neither?

Answer: ___

(2)

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7 A bus leaves Central Station at 07:55 and arrives at Parkside at 08:28. Later the bus leaves Parkside at 17:20 and arrives back at Central Station at 17:58. Which journey took longer and by how many minutes?

(2)

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8 A line graph shows the number of visitors to three exhibitions each day. On a certain day Exhibition A had 120 visitors, Exhibition B had 95 and Exhibition C had 85. A pupil claims: "Exhibition A had more visitors than B and C combined." Explain whether the pupil is correct.

(2)

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9 The school bus timetable shows departure times from Willow Stop: 08:05, 08:20, 08:35, 08:50, 09:05. A pupil arrives at Willow Stop at 08:27. Which bus will they catch?

(2)

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10 A line graph records the temperature at 6 times during a day: 6:00 9 degrees, 9:00 12 degrees, 12:00 18 degrees, 15:00 20 degrees, 18:00 15 degrees, 21:00 10 degrees. What is the range of temperatures shown on the graph?

(2)

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11 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 13, 9:00 = 12, 10:00 = 16, 11:00 = 21, 12:00 = 18, 13:00 = 20.

At what time was the value highest?

Answer: ___

(1)

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12 A pictogram uses (*) for 4 items and (half) for 2 items.

Mon: (*) (*) (half)
Tue: (*) (*) (half)
Wed: (*) (*) (half)

How many items does Tue show?

Answer: ___

(2)

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13 A line graph shows the number of apples picked from an orchard each day for a week: Mon 24, Tue 30, Wed 27, Thu 33, Fri 30, Sat 18, Sun 15. On which day was the number picked equal to the mode of the week?

(2)

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Mark scheme · 9.4 Statistics: Line Graphs and Timetables: 30-minute Pack

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

Question 1

counts on to the next hour or minutes calculation	M1
203 minutes cao	A1

Answer: **203 minutes**

Question 2

adds the boys and girls	M1
40 cao	A1

Answer: **40**

Question 3

subtracts hours then minutes	M1
07:28 cao	A1

Answer: **07:28**

Question 4

finds the difference between the two values	M1
3 cm cao	A1

Answer: **3 cm**

Question 5

adds hours then minutes	M1
16:37 cao	A1

Answer: **16:37**

Question 6

8 + 11 - 6 = 13 seen	M1
18 cao	A1

Answer: **18**

Question 7

Finds both journey times: 33 minutes and 38 minutes	M1
States return journey longer by 5 minutes cao	B1

Answer: **Return journey by 5 minutes**

Question 8

Adds B and C correctly: 95 + 85 = 180	M1
Concludes pupil is incorrect because 120 < 180 cao	B1

Answer: **The pupil is incorrect because B and C together have 95 + 85 = 180 visitors, which is more than A's 120.**

Question 9

Identifies the 08:35 bus as the correct bus	B1
Clear statement 08:35 cao	B1

Answer: **08:35**

Question 10

Finds highest and lowest temperatures or calculates 20 - 9	M1
11 cao	B1

Answer: **11 degrees Celsius**

Question 11

11:00 cao	B1

Answer: **11:00**

Question 12

uses the key	M1
10 cao	A1

Answer: **10**

Question 13

Identifies the modal value 30	M1
Gives a day with 30, Tue or Fri cao	B1

Answer: **Tuesday or Friday**

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