9.4 Statistics: Line Graphs and Timetables: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A line graph shows the height of a plant in cm at different times. The points on the graph are: 8:00 = 8, 9:00 = 13, 10:00 = 19, 11:00 = 20, 12:00 = 18, 13:00 = 22.

By how much did it change between 8:00 and 11:00? Write a positive number.

Answer: ___ cm

(2)

---

2 A school club survey is shown.

Boys: 10 chose Chess, 22 chose Drama
Girls: 9 chose Chess, 8 chose Drama

How many boys were surveyed?

Answer: ___

(2)

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3 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 7, 9:00 = 11, 10:00 = 14, 11:00 = 16, 12:00 = 17, 13:00 = 20.

By how much did it change between 9:00 and 10:00? Write a positive number.

Answer: ___ degrees

(2)

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4 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 20, 9:00 = 22, 10:00 = 21, 11:00 = 26, 12:00 = 28, 13:00 = 31.

By how much did it change between 11:00 and 13:00? Write a positive number.

Answer: ___ litres

(2)

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5 A lesson finishes at 10:54 after taking 56 minutes.

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

Answer: ___

(2)

---

6 A lesson finishes at 11:49 after taking 4 hours 49 minutes.

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

Answer: ___

(1)

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7 Part of a train timetable is shown.

Eastleigh: 06:45
Fenwick: 06:54
Bridgton: 07:13
Ashby: 07:31

Yusuf arrives at Eastleigh station at 06:39.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

---

8 A line graph shows ice-cream sales by hour: 10:00 5, 11:00 8, 12:00 14, 13:00 18, 14:00 16. What is the average (mean) number of ice-creams sold per hour over these five hours? Give your answer to 1 decimal place.

(2)

---

9 A pictogram uses (*) for 10 items and (half) for 5 items.

Red: (*) (*) (*) (*)
Blue: (*) (*) (*)
Green: (*) (*) (half)

How many whole symbols are needed to show 50 items?

Answer: ___

(2)

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10 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 18, 9:00 = 22, 10:00 = 23, 11:00 = 24, 12:00 = 28, 13:00 = 27.

By how much did it change between 9:00 and 13:00? Write a positive number.

Answer: ___ litres

(2)

---

11 The table shows the number of visitors for four groups.

Red: 73
Blue: 39
Green: 275
Yellow: 586

What is the total for all four groups?

Answer: ___

(2)

---

12 Part of a train timetable is shown.

Fenwick: 12:05
Hollin: 12:28
Ashby: 12:36
Eastleigh: 13:15

How many minutes does the train take to travel from Fenwick to Ashby?

Answer: ___ minutes

(1)

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13 A school club survey is shown.

Boys: 14 chose Swimming, 11 chose Tennis
Girls: 22 chose Swimming, 21 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

---

14 In a class of 33 pupils, 8 like art, 21 like music and 4 like both.

How many pupils like neither?

Answer: ___

(2)

---

15 A school club survey is shown.

Boys: 23 chose Swimming, 28 chose Tennis
Girls: 29 chose Swimming, 11 chose Tennis

How many pupils were surveyed altogether?

Answer: ___

(3)

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16 A line graph shows the height of a plant in cm at different times. The points on the graph are: 8:00 = 20, 9:00 = 21, 10:00 = 18, 11:00 = 15, 12:00 = 17, 13:00 = 17.

By how much did it change between 9:00 and 12:00? Write a positive number.

Answer: ___ cm

(2)

---

17 Part of a train timetable is shown.

Carlow: 14:00
Fenwick: 14:19
Eastleigh: 14:44
Bridgton: 15:23

How many minutes does the train take to travel from Carlow to Eastleigh?

Answer: ___ minutes

(1)

---

18 The table shows the points scored for four groups.

Bus: 358
Car: 583
Walk: 387
Bike: 887

How many more points were there for Walk than for Bus?

Answer: ___

(2)

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19 A school club survey is shown.

Boys: 29 chose Football, 5 chose Netball
Girls: 7 chose Football, 29 chose Netball

How many pupils were surveyed altogether?

Answer: ___

(3)

---

20 The table shows the number of visitors for four groups.

Red: 24
Blue: 620
Green: 660
Yellow: 756

What is the total for all four groups?

Answer: ___

(1)

---

21 In a class of 38 pupils, 23 like tea, 12 like coffee and 8 like both.

How many pupils like neither?

Answer: ___

(2)

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22 A school club survey is shown.

Boys: 12 chose Chess, 16 chose Drama
Girls: 29 chose Chess, 16 chose Drama

How many pupils were surveyed altogether?

Answer: ___

(3)

---

23 A train leaves at 08:05 and takes 4 hours 53 minutes.

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

Answer: ___

(2)

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24 A train timetable shows the following arrival times at Oakley: 10:12, 11:00, 11:48, 12:36. How many minutes are there between the 11:00 and the 11:48 arrival?

(2)

---

25 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 19, 9:00 = 18, 10:00 = 23, 11:00 = 26, 12:00 = 31, 13:00 = 32.

What was the value at 10:00?

Answer: ___ litres

(1)

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Mark scheme · 9.4 Statistics: Line Graphs and Timetables: 1-hour Pack

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

Question 1

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

Answer: **12 cm**

Question 2

adds both boys' values	M1
32 cao	A1

Answer: **32**

Question 3

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

Answer: **3 degrees**

Question 4

finds the difference between the two values	M1
5 litres cao	A1

Answer: **5 litres**

Question 5

subtracts hours then minutes	M1
09:58 cao	A1

Answer: **09:58**

Question 6

07:00 cao	B1

Answer: **07:00**

Question 7

finds the wait between arriving and the departure time (counting on or subtracting)	M1
6 minutes cao	A1

Answer: **6 minutes**

Question 8

Adds values correctly to get total 61 and divides by 5	M1
12.2 cao	B1

Answer: **12.2**

Question 9

divides by the key	M1
5 cao	A1

Answer: **5**

Question 10

finds the difference between the two values	M1
5 litres cao	A1

Answer: **5 litres**

Question 11

adds at least two values	M1
973 cao	A1

Answer: **973**

Question 12

31 minutes cao	B1

Answer: **31 minutes**

Question 13

both totals found	M1
4 cao	A1

Answer: **4**

Question 14

8 + 21 - 4 = 25 seen	M1
8 cao	A1

Answer: **8**

Question 15

adds the boys	M1
adds all four	M1
91 cao	A1

Answer: **91**

Question 16

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

Answer: **4 cm**

Question 17

44 minutes cao	B1

Answer: **44 minutes**

Question 18

subtraction seen	M1
29 cao	A1

Answer: **29**

Question 19

adds the boys	M1
adds all four	M1
70 cao	A1

Answer: **70**

Question 20

2,060 cao	B1

Answer: **2,060**

Question 21

23 + 12 - 8 = 27 seen	M1
11 cao	A1

Answer: **11**

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Question 22

adds the boys	**M1**
adds all four	**M1**
73 cao	**A1**

Answer: **73**

Question 23

adds hours then minutes	**M1**
12:58 cao	**A1**

Answer: **12:58**

Question 24

Calculates time difference 48 - 00 or 11:48 - 11:00	**M1**
48 cao	**B1**

Answer: **48 minutes**

Question 25

23 litres cao	**B1**

Answer: **23 litres**

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