9.4 Statistics: Line Graphs and Timetables: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 10, 9:00 = 7, 10:00 = 12, 11:00 = 17, 12:00 = 18, 13:00 = 23.

What was the value at 10:00?

Answer: ___ degrees

(1)

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2 Part of a train timetable is shown.

Ashby: 10:15
Eastleigh: 10:51
Hollin: 11:19
Grange: 11:38

Kofi arrives at Hollin station at 11:07.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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3 The table shows the number of books borrowed for four groups.

Red: 239
Blue: 297
Green: 547
Yellow: 808

How many books were there for Red?

Answer: ___

(1)

---

4 In a class of 27 pupils, 17 like football, 7 like netball and 2 like both.

How many pupils like neither?

Answer: ___

(2)

---

5 A school club survey is shown.

Boys: 15 chose Art, 15 chose Music
Girls: 8 chose Art, 7 chose Music

How many pupils chose Art?

Answer: ___

(2)

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6 A school club survey is shown.

Boys: 17 chose Art, 15 chose Music
Girls: 15 chose Art, 17 chose Music

How many boys were surveyed?

Answer: ___

(2)

---

7 A lesson starts at 18:53 and takes 1 hour 40 minutes.

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

Answer: ___

(2)

---

8 A school club survey is shown.

Boys: 26 chose Art, 10 chose Music
Girls: 15 chose Art, 12 chose Music

How many pupils chose Art?

Answer: ___

(2)

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9 Part of a train timetable is shown.

Hollin: 12:25
Fenwick: 12:51
Carlow: 13:24
Grange: 13:36

Chloe arrives at Hollin station at 12:11.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

---

10 The table shows the litres of rain for four groups.

Year 3: 275
Year 4: 286
Year 5: 699
Year 6: 712

What is the difference between the highest and the lowest litres?

Answer: ___

(2)

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

Bus: (*) (*) (*) (*) (half)
Car: (*) (*) (*) (*) (*)
Walk: (*) (*) (*) (half)

How many more items does Car show than Bus?

Answer: ___

(3)

---

12 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 = 5, 10:00 = 4, 11:00 = 2, 12:00 = 5, 13:00 = 8.

At what time was the value highest?

Answer: ___

(1)

---

13 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 20, 9:00 = 23, 10:00 = 24, 11:00 = 24, 12:00 = 25, 13:00 = 22.

What was the value at 10:00?

Answer: ___ degrees

(1)

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14 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 = 11, 12:00 = 12, 13:00 = 11.

By how much did it change between 8:00 and 9:00? Write a positive number.

Answer: ___ cm

(2)

---

15 A school club survey is shown.

Boys: 10 chose Chess, 21 chose Drama
Girls: 9 chose Chess, 26 chose Drama

How many pupils were surveyed altogether?

Answer: ___

(3)

---

16 A ferry timetable shows departures from Harbour A to Harbour B at 09:10, 11:40, 14:10 and 16:40. The crossing takes 55 minutes. If a passenger catches the 11:40 ferry, at what time will they arrive at Harbour B?

(2)

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17 A school club survey is shown.

Boys: 11 chose Chess, 13 chose Drama
Girls: 10 chose Chess, 8 chose Drama

How many pupils were surveyed altogether?

Answer: ___

(3)

---

18 The table shows the tickets sold for four groups.

Spring: 17
Summer: 281
Autumn: 471
Winter: 47

How many tickets were there for Spring?

Answer: ___

(1)

---

19 Part of a train timetable is shown.

Ashby: 08:30
Carlow: 08:40
Grange: 09:20
Bridgton: 09:46

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

Answer: ___ minutes

(1)

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20 The table shows the points scored for four groups.

Year 3: 360
Year 4: 216
Year 5: 833
Year 6: 765

How many points were there for Year 4?

Answer: ___

(1)

---

21 Part of a train timetable is shown.

Fenwick: 08:00
Carlow: 08:34
Ashby: 08:54
Bridgton: 09:28

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

Answer: ___ minutes

(2)

---

22 A school club survey is shown.

Boys: 11 chose Chess, 22 chose Drama
Girls: 29 chose Chess, 8 chose Drama

How many more pupils chose Chess than Drama?

Answer: ___

(2)

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23 A school club survey is shown.

Boys: 17 chose Football, 14 chose Netball
Girls: 30 chose Football, 16 chose Netball

How many more pupils chose Football than Netball?

Answer: ___

(2)

---

24 A school club survey is shown.

Boys: 10 chose Chess, 12 chose Drama
Girls: 12 chose Chess, 13 chose Drama

How many pupils chose Chess?

Answer: ___

(2)

---

25 A line graph shows the number of pages pupils read each day: Monday 15, Tuesday 18, Wednesday 27, Thursday 24, Friday 21. How many more pages were read on Wednesday than on Monday?

(2)

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26 A pictogram uses (*) for 2 items and (half) for 1 items.

Year 3: (*) (half)
Year 4: (*) (*) (*) (*) (half)
Year 5: (*) (*) (*)

How many more items does Year 4 show than Year 3?

Answer: ___

(3)

---

27 The table shows the points scored for four groups.

Red: 439
Blue: 31
Green: 830
Yellow: 535

How many points were there for Yellow and Blue together?

Answer: ___

(2)

---

28 A film finishes at 08:51 after taking 2 hours 22 minutes.

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

Answer: ___

(2)

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29 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 13, 9:00 = 10, 10:00 = 7, 11:00 = 11, 12:00 = 16, 13:00 = 21.

By how much did it change between 10:00 and 13:00? Write a positive number.

Answer: ___ litres

(2)

---

30 In a class of 39 pupils, 27 like cheese, 20 like ham and 12 like both.

How many pupils like neither?

Answer: ___

(2)

---

31 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 6, 9:00 = 9, 10:00 = 8, 11:00 = 11, 12:00 = 12, 13:00 = 16.

At what time was the value highest?

Answer: ___

(1)

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32 The table shows the number of pupils for four groups.

Red: 215
Blue: 716
Green: 594
Yellow: 528

How many pupils were there for Red and Yellow together?

Answer: ___

(1)

---

33 A lesson finishes at 18:56 after taking 3 hours 6 minutes.

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

Answer: ___

(2)

---

34 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 = 17, 10:00 = 18, 11:00 = 15, 12:00 = 15, 13:00 = 18.

At what time was the value highest?

Answer: ___

(1)

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35 A school club survey is shown.

Boys: 8 chose Swimming, 14 chose Tennis
Girls: 5 chose Swimming, 27 chose Tennis

How many pupils chose Swimming?

Answer: ___

(2)

---

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

What was the value at 8:00?

Answer: ___ cm

(1)

---

37 The table shows the number of pupils for four groups.

Red: 812
Blue: 872
Green: 518
Yellow: 81

How many pupils were there for Red and Blue together?

Answer: ___

(2)

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38 Part of a train timetable is shown.

Eastleigh: 08:50
Hollin: 09:05
Carlow: 09:22
Fenwick: 09:49

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

Answer: ___ minutes

(1)

---

39 A pictogram uses (*) for 2 items and (half) for 1 items.

Cats: (*) (*) (*)
Dogs: (*) (*) (*) (*) (*)
Fish: (*) (*) (*) (*) (*)

How many items are shown altogether?

Answer: ___

(3)

---

40 The table shows the litres of rain for four groups.

Bus: 832
Car: 543
Walk: 636
Bike: 130

How many litres were there for Car?

Answer: ___

(1)

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

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

How many items are shown altogether?

Answer: ___

(3)

---

42 In a class of 25 pupils, 11 like swimming, 18 like cycling and 7 like both.

How many pupils like neither?

Answer: ___

(2)

---

43 A school club survey is shown.

Boys: 28 chose Football, 22 chose Netball
Girls: 12 chose Football, 29 chose Netball

How many boys were surveyed?

Answer: ___

(2)

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44 A pictogram uses (*) for 20 items and (half) for 10 items.

North: (*) (half)
South: (*) (*) (half)
East: (*) (*) (*) (*)

How many more items does East show than North?

Answer: ___

(3)

---

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

Bus: (*) (*) (*) (*) (*)
Car: (*) (*) (*) (*) (*) (half)
Walk: (*) (*) (*) (*) (half)

How many items are shown altogether?

Answer: ___

(3)

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46 A school club survey is shown.

Boys: 22 chose Chess, 15 chose Drama
Girls: 29 chose Chess, 17 chose Drama

How many pupils were surveyed altogether?

Answer: ___

(3)

---

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

What was the value at 10:00?

Answer: ___ degrees

(1)

---

48 A line graph shows the height of a plant in cm at different times. The points on the graph are: 8:00 = 16, 9:00 = 15, 10:00 = 17, 11:00 = 22, 12:00 = 19, 13:00 = 23.

What was the value at 9:00?

Answer: ___ cm

(1)

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49 In a class of 34 pupils, 15 like tea, 24 like coffee and 10 like both.

How many pupils like neither?

Answer: ___

(2)

---

50 A school club survey is shown.

Boys: 27 chose Chess, 26 chose Drama
Girls: 26 chose Chess, 20 chose Drama

How many more pupils chose Chess than Drama?

Answer: ___

(2)

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Mark scheme · 9.4 Statistics: Line Graphs and Timetables: 2-hour Pack

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

Question 1

12 degrees cao — **B1**

Answer: **12 degrees**

Question 2

finds the wait between arriving and the departure time (counting on or subtracting) — **M1**

12 minutes cao — **A1**

Answer: **12 minutes**

Question 3

239 cao — **B1**

Answer: **239**

Question 4

17 + 7 - 2 = 22 seen — **M1**

5 cao — **A1**

Answer: **5**

Question 5

adds the boys and girls — **M1**

23 cao — **A1**

Answer: **23**

Question 6

adds both boys' values — **M1**

32 cao — **A1**

Answer: **32**

Question 7

adds hours then minutes — **M1**

20:33 cao — **A1**

Answer: **20:33**

Question 8

adds the boys and girls — **M1**

41 cao — **A1**

Answer: **41**

Question 9

finds the wait between arriving and the departure time (counting on or subtracting) — **M1**

14 minutes cao — **A1**

Answer: **14 minutes**

Question 10

identifies the highest and lowest — **M1**

437 cao — **A1**

Answer: **437**

Question 11

uses the key — **M1**

subtracts — **M1**

2 cao — **A1**

Answer: **2**

Question 12

13:00 cao — **B1**

Answer: **13:00**

Question 13

24 degrees cao — **B1**

Answer: **24 degrees**

Question 14

finds the difference between the two values — **M1**

1 cm cao — **A1**

Answer: **1 cm**

Question 15

adds the boys — **M1**

adds all four — **M1**

66 cao — **A1**

Answer: **66**

Question 16

Adds 55 minutes correctly to 11:40 — **M1**

12:35 cao — **B1**

Answer: **12:35**

Question 17

adds the boys — **M1**

adds all four — **M1**

42 cao — **A1**

Answer: **42**

Question 18

17 cao — **B1**

Answer: **17**

Question 19

66 minutes cao — **B1**

Answer: **66 minutes**

Question 20

216 cao — **B1**

Answer: **216**

Question 21

finds the difference between the two times (counting on or subtracting) — **M1**

54 minutes cao — **A1**

Answer: **54 minutes**

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Question 22

both totals found	M1
10 cao	A1

Answer: **10**

Question 23

both totals found	M1
17 cao	A1

Answer: **17**

Question 24

adds the boys and girls	M1
22 cao	A1

Answer: **22**

Question 25

Subtracts 15 from 27 or shows difference	M1
12 cao	B1

Answer: **12 pages**

Question 26

uses the key	M1
subtracts	M1
6 cao	A1

Answer: **6**

Question 27

addition seen	M1
566 cao	A1

Answer: **566**

Question 28

subtracts hours then minutes	M1
06:29 cao	A1

Answer: **06:29**

Question 29

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

Answer: **14 litres**

Question 30

27 + 20 - 12 = 35 seen	M1
4 cao	A1

Answer: **4**

Question 31

13:00 cao	B1

Answer: **13:00**

Question 32

743 cao	B1

Answer: **743**

Question 33

subtracts hours then minutes	M1
15:50 cao	A1

Answer: **15:50**

Question 34

8:00 cao	B1

Answer: **8:00**

Question 35

adds the boys and girls	M1
13 cao	A1

Answer: **13**

Question 36

9 cm cao	B1

Answer: **9 cm**

Question 37

addition seen	M1
1,684 cao	A1

Answer: **1,684**

Question 38

17 minutes cao	B1

Answer: **17 minutes**

Question 39

uses the key	M1
adds the three values	M1
26 cao	A1

Answer: **26**

Question 40

543 cao	B1

Answer: **543**

Question 41

uses the key	M1
adds the three values	M1
60 cao	A1

Answer: **60**

Question 42

11 + 18 - 7 = 22 seen	M1
3 cao	A1

Answer: **3**

Question 43

adds both boys' values	M1
50 cao	A1

Answer: **50**

Question 44

uses the key	M1
subtracts	M1
50 cao	A1

Answer: **50**

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Question 45

uses the key	**M1**
adds the three values	**M1**
150 cao	**A1**

Answer: **150**

Question 46

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

Answer: **83**

Question 47

12 degrees cao	**B1**

Answer: **12 degrees**

Question 48

15 cm cao	**B1**

Answer: **15 cm**

Question 49

15 + 24 - 10 = 29 seen	**M1**
5 cao	**A1**

Answer: **5**

Question 50

both totals found	**M1**
7 cao	**A1**

Answer: **7**

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