9.3 Statistics: Line Graphs and Tables: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A school club survey is shown.

Boys: 28 chose Chess, 20 chose Drama
Girls: 9 chose Chess, 15 chose Drama

How many pupils were surveyed altogether?

Answer: ___

(3)

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

North: 301
South: 151
East: 336
West: 877

How many more visitors were there for East than for South?

Answer: ___

(2)

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3 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 14, 9:00 = 17, 10:00 = 16, 11:00 = 13, 12:00 = 18, 13:00 = 24.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

---

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

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

How many whole symbols are needed to show 40 items?

Answer: ___

(2)

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5 Part of a train timetable is shown.

Ashby: 10:20
Hollin: 10:42
Eastleigh: 11:18
Dunmere: 11:53

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

Answer: ___ minutes

(1)

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6 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 9, 9:00 = 8, 10:00 = 14, 11:00 = 18, 12:00 = 21, 13:00 = 18.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

---

7 A school club survey is shown.

Boys: 23 chose Chess, 28 chose Drama
Girls: 16 chose Chess, 14 chose Drama

How many boys were surveyed?

Answer: ___

(2)

---

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

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

How many more items does Walk show than Bus?

Answer: ___

(3)

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

Mon: 40
Tue: 81
Wed: 28
Thu: 13

What is the total for all four groups?

Answer: ___

(2)

---

10 A school club survey is shown.

Boys: 12 chose Art, 6 chose Music
Girls: 21 chose Art, 24 chose Music

How many more pupils chose Art than Music?

Answer: ___

(2)

---

11 The table shows the tickets sold for four groups.

Year 3: 19
Year 4: 26
Year 5: 84
Year 6: 42

How many more tickets were there for Year 5 than for Year 4?

Answer: ___

(1)

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12 The table shows the points scored for four groups.

Bus: 431
Car: 352
Walk: 403
Bike: 193

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

Answer: ___

(2)

---

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

Red: 53
Blue: 9
Green: 89
Yellow: 37

What is the total for all four groups?

Answer: ___

(3)

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14 A school club survey is shown.

Boys: 28 chose Chess, 14 chose Drama
Girls: 20 chose Chess, 10 chose Drama

How many pupils chose Chess?

Answer: ___

(2)

---

15 The table shows the tickets sold for four groups.

Mon: 72
Tue: 69
Wed: 35
Thu: 42

How many more tickets were there for Mon than for Thu?

Answer: ___

(2)

---

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

Year 3: 54
Year 4: 76
Year 5: 56
Year 6: 49

What is the total for all four groups?

Answer: ___

(1)

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17 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 = 16, 10:00 = 15, 11:00 = 18, 12:00 = 16, 13:00 = 22.

By how much did it change between 8:00 and 13:00? Write a positive number.

Answer: ___ litres

(2)

---

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

Red: 56
Blue: 54
Green: 25
Yellow: 48

What is the total for all four groups?

Answer: ___

(3)

---

19 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 14, 9:00 = 13, 10:00 = 17, 11:00 = 18, 12:00 = 21, 13:00 = 27.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

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20 The table shows the points scored for four groups.

Year 3: 33
Year 4: 75
Year 5: 37
Year 6: 69

How many more points were there for Year 4 than for Year 6?

Answer: ___

(1)

---

21 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 11, 9:00 = 11, 10:00 = 9, 11:00 = 14, 12:00 = 20, 13:00 = 19.

What was the value at 8:00?

Answer: ___ degrees

(1)

---

22 Part of a train timetable is shown.

Grange: 13:25
Dunmere: 14:02
Hollin: 14:40
Bridgton: 14:57

How many minutes does the train take to travel from Grange to Dunmere?

Answer: ___ minutes

(2)

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

Cats: 783
Dogs: 826
Fish: 739
Birds: 648

How many visitors were there for Dogs and Birds together?

Answer: ___

(1)

---

24 A school club survey is shown.

Boys: 25 chose Football, 9 chose Netball
Girls: 25 chose Football, 12 chose Netball

How many more pupils chose Football than Netball?

Answer: ___

(2)

---

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

Year 3: 41
Year 4: 17
Year 5: 67
Year 6: 71

What is the total for all four groups?

Answer: ___

(1)

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

Mon: 777
Tue: 189
Wed: 633
Thu: 301

How many litres were there for Mon and Thu together?

Answer: ___

(2)

---

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

Spring: 887
Summer: 165
Autumn: 21
Winter: 494

What is the total for all four groups?

Answer: ___

(3)

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

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

How many items are shown altogether?

Answer: ___

(3)

---

29 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 10, 9:00 = 9, 10:00 = 6, 11:00 = 7, 12:00 = 13, 13:00 = 12.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

---

30 A school club survey is shown.

Boys: 28 chose Football, 12 chose Netball
Girls: 5 chose Football, 18 chose Netball

How many boys were surveyed?

Answer: ___

(2)

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31 The table shows the tickets sold for four groups.

Cats: 86
Dogs: 72
Fish: 28
Birds: 35

What is the total for all four groups?

Answer: ___

(3)

---

32 A school club survey is shown.

Boys: 13 chose Chess, 10 chose Drama
Girls: 25 chose Chess, 24 chose Drama

How many boys were surveyed?

Answer: ___

(2)

---

33 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 = 13, 11:00 = 15, 12:00 = 14, 13:00 = 15.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

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

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

How many items are shown altogether?

Answer: ___

(3)

---

35 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 15, 9:00 = 19, 10:00 = 22, 11:00 = 21, 12:00 = 27, 13:00 = 25.

At what time was the value highest?

Answer: ___

(1)

---

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

Year 3: 84
Year 4: 78
Year 5: 62
Year 6: 15

How many litres were there for Year 3 and Year 4 together?

Answer: ___

(2)

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37 The table shows the points scored for four groups.

Spring: 26
Summer: 15
Autumn: 81
Winter: 10

How many points were there for Summer and Spring together?

Answer: ___

(1)

---

38 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 18, 9:00 = 19, 10:00 = 22, 11:00 = 19, 12:00 = 23, 13:00 = 20.

Between which two consecutive times was the greatest increase? Write the earlier time.

Answer: ___

(2)

---

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

What was the value at 12:00?

Answer: ___ degrees

(1)

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40 Part of a train timetable is shown.

Hollin: 07:40
Grange: 08:18
Fenwick: 08:25
Dunmere: 08:49

Poppy arrives at Hollin station at 07:33.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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41 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 11, 9:00 = 17, 10:00 = 14, 11:00 = 19, 12:00 = 25, 13:00 = 26.

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

Answer: ___ degrees

(2)

---

42 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 16, 9:00 = 18, 10:00 = 24, 11:00 = 25, 12:00 = 23, 13:00 = 20.

At what time was the value highest?

Answer: ___

(1)

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

Cats: 581
Dogs: 459
Fish: 137
Birds: 467

What is the total for all four groups?

Answer: ___

(2)

---

44 Part of a train timetable is shown.

Ashby: 14:40
Eastleigh: 15:19
Hollin: 15:51
Fenwick: 16:27

Ravi arrives at Ashby station at 14:25.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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45 Part of a train timetable is shown.

Ashby: 14:25
Dunmere: 14:57
Carlow: 15:11
Bridgton: 15:29

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

Answer: ___ minutes

(2)

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46 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 18, 9:00 = 23, 10:00 = 22, 11:00 = 26, 12:00 = 26, 13:00 = 30.

What was the value at 10:00?

Answer: ___ degrees

(1)

---

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

Spring: 53
Summer: 87
Autumn: 73
Winter: 85

How many pupils were there for Winter?

Answer: ___

(1)

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48 The table shows the tickets sold for four groups.

Mon: 68
Tue: 56
Wed: 12
Thu: 18

How many tickets were there for Thu and Wed together?

Answer: ___

(1)

---

49 A school club survey is shown.

Boys: 28 chose Swimming, 21 chose Tennis
Girls: 22 chose Swimming, 5 chose Tennis

How many pupils chose Swimming?

Answer: ___

(2)

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50 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 = 7, 10:00 = 6, 11:00 = 11, 12:00 = 11, 13:00 = 10.

What was the value at 9:00?

Answer: ___ cm

(1)

---

51 The table shows the points scored for four groups.

Red: 71
Blue: 53
Green: 9
Yellow: 31

How many points were there for Yellow and Green together?

Answer: ___

(2)

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Mark scheme · 9.3 Statistics: Line Graphs and Tables: 2-hour Pack

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

Question 1

adds the boys	M1
adds all four	M1
72 cao	A1

Answer: **72**

Question 2

subtraction seen	M1
185 cao	A1

Answer: **185**

Question 3

compares the changes	M1
12:00 cao	A1

Answer: **12:00**

Question 4

divides by the key	M1
2 cao	A1

Answer: **2**

Question 5

93 minutes cao	B1

Answer: **93 minutes**

Question 6

compares the changes	M1
9:00 cao	A1

Answer: **9:00**

Question 7

adds both boys' values	M1
51 cao	A1

Answer: **51**

Question 8

uses the key	M1
subtracts	M1
20 cao	A1

Answer: **20**

Question 9

adds at least two values	M1
162 cao	A1

Answer: **162**

Question 10

both totals found	M1
3 cao	A1

Answer: **3**

Question 11

58 cao	B1

Answer: **58**

Question 12

subtraction seen	M1
28 cao	A1

Answer: **28**

Question 13

adds at least two values	M1
adds all four values	M1
188 cao	A1

Answer: **188**

Question 14

adds the boys and girls	M1
48 cao	A1

Answer: **48**

Question 15

subtraction seen	M1
30 cao	A1

Answer: **30**

Question 16

235 cao	B1

Answer: **235**

Question 17

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

Answer: **9 litres**

Question 18

adds at least two values	M1
adds all four values	M1
183 cao	A1

Answer: **183**

Question 19

compares the changes	M1
12:00 cao	A1

Answer: **12:00**

Question 20

6 cao	B1

Answer: **6**

Question 21

11 degrees cao	B1

Answer: **11 degrees**

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Question 22

finds the difference between the two times (counting on or subtracting) — M1
37 minutes cao — A1
Answer: **37 minutes**

Question 23

1,474 cao — B1
Answer: **1,474**

Question 24

both totals found — M1
29 cao — A1
Answer: **29**

Question 25

196 cao — B1
Answer: **196**

Question 26

addition seen — M1
1,078 cao — A1
Answer: **1,078**

Question 27

adds at least two values — M1
adds all four values — M1
1,567 cao — A1
Answer: **1,567**

Question 28

uses the key — M1
adds the three values — M1
28 cao — A1
Answer: **28**

Question 29

compares the changes — M1
11:00 cao — A1
Answer: **11:00**

Question 30

adds both boys' values — M1
40 cao — A1
Answer: **40**

Question 31

adds at least two values — M1
adds all four values — M1
221 cao — A1
Answer: **221**

Question 32

adds both boys' values — M1
23 cao — A1
Answer: **23**

Question 33

compares the changes — M1
10:00 cao — A1
Answer: **10:00**

Question 34

uses the key — M1
adds the three values — M1
230 cao — A1
Answer: **230**

Question 35

12:00 cao — B1
Answer: **12:00**

Question 36

addition seen — M1
162 cao — A1
Answer: **162**

Question 37

41 cao — B1
Answer: **41**

Question 38

compares the changes — M1
11:00 cao — A1
Answer: **11:00**

Question 39

13 degrees cao — B1
Answer: **13 degrees**

Question 40

finds the wait between arriving and the departure time (counting on or subtracting) — M1
7 minutes cao — A1
Answer: **7 minutes**

Question 41

finds the difference between the two values — M1
2 degrees cao — A1
Answer: **2 degrees**

Question 42

11:00 cao — B1
Answer: **11:00**

Question 43

adds at least two values — M1
1,644 cao — A1
Answer: **1,644**

Question 44

finds the wait between arriving and the departure time (counting on or subtracting) — M1
15 minutes cao — A1
Answer: **15 minutes**

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Question 45

finds the difference between the two times (counting on or subtracting)	M1
64 minutes cao	A1

Answer: **64 minutes**

Question 46

22 degrees cao	B1

Answer: **22 degrees**

Question 47

85 cao	B1

Answer: **85**

Question 48

30 cao	B1

Answer: **30**

Question 49

adds the boys and girls	M1
50 cao	A1

Answer: **50**

Question 50

7 cm cao	B1

Answer: **7 cm**

Question 51

addition seen	M1
40 cao	A1

Answer: **40**

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