9.3 Statistics: Line Graphs and Tables: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

Mon: 268
Tue: 537
Wed: 458
Thu: 784

What is the total for all four groups?

Answer: ___

(1)

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2 A line graph shows the height of a plant in cm at different times. The points on the graph are: 8:00 = 13, 9:00 = 10, 10:00 = 15, 11:00 = 19, 12:00 = 25, 13:00 = 29.

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

Answer: ___ cm

(2)

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3 The table shows the tickets sold for four groups.

Year 3: 732
Year 4: 281
Year 5: 337
Year 6: 8

What is the total for all four groups?

Answer: ___

(2)

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

Year 3: 51
Year 4: 62
Year 5: 13
Year 6: 15

How many more books were there for Year 3 than for Year 5?

Answer: ___

(2)

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5 The table shows the tickets sold for four groups.

Red: 17
Blue: 38
Green: 26
Yellow: 48

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

Answer: ___

(2)

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

North: 391
South: 267
East: 118
West: 294

What is the total for all four groups?

Answer: ___

(3)

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

Cats: 65
Dogs: 24
Fish: 32
Birds: 8

How many more books were there for Fish than for Dogs?

Answer: ___

(2)

---

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

Spring: (*) (*) (*) (*) (half)
Summer: (*)
Autumn: (*) (half)

How many more items does Spring show than Autumn?

Answer: ___

(3)

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9 A line graph shows the water in a tank in litres at different times. The points on the graph are: 8:00 = 5, 9:00 = 4, 10:00 = 10, 11:00 = 13, 12:00 = 19, 13:00 = 25.

What was the value at 10:00?

Answer: ___ litres

(1)

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

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

How many items are shown altogether?

Answer: ___

(3)

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11 The table shows the points scored for four groups.

Red: 141
Blue: 278
Green: 130
Yellow: 464

How many points were there for Red and Green together?

Answer: ___

(2)

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12 The table shows the tickets sold for four groups.

Year 3: 19
Year 4: 47
Year 5: 28
Year 6: 39

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

Answer: ___

(2)

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

At what time was the value highest?

Answer: ___

(1)

---

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

Bus: 71
Car: 84
Walk: 78
Bike: 17

What is the total for all four groups?

Answer: ___

(3)

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

Cats: 64
Dogs: 11
Fish: 19
Birds: 20

How many visitors were there for Fish and Cats together?

Answer: ___

(2)

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

Bus: 436
Car: 302
Walk: 284
Bike: 48

What is the total for all four groups?

Answer: ___

(1)

---

17 A school club survey is shown.

Boys: 11 chose Swimming, 12 chose Tennis
Girls: 10 chose Swimming, 5 chose Tennis

How many pupils chose Swimming?

Answer: ___

(2)

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

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

Answer: ___

(2)

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19 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 5, 9:00 = 6, 10:00 = 10, 11:00 = 13, 12:00 = 10, 13:00 = 8.

What was the value at 8:00?

Answer: ___ degrees

(1)

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20 Part of a train timetable is shown.

Dunmere: 08:55
Grange: 09:07
Eastleigh: 09:33
Fenwick: 10:13

George arrives at Grange station at 08:47.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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21 A line graph shows how many pupils arrive at a school gate each 10 minutes between 8:20 and 9:00.

At 8:30 there are 18 pupils and at 8:50 there are 30 pupils.

Assuming the number of pupils increased steadily between these times, how many pupils arrived between 8:30 and 8:40?

(2)

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22 A school club survey is shown.

Boys: 13 chose Art, 16 chose Music
Girls: 18 chose Art, 26 chose Music

How many pupils were surveyed altogether?

Answer: ___

(3)

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

Red: 85
Blue: 31
Green: 75
Yellow: 68

How many books were there for Yellow and Red together?

Answer: ___

(2)

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24 A school club survey is shown.

Boys: 9 chose Swimming, 6 chose Tennis
Girls: 26 chose Swimming, 17 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

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Mark scheme · 9.3 Statistics: Line Graphs and Tables: 1-hour Pack

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

Question 1

2,047 cao — **B1**

Answer: **2,047**

Question 2

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

14 cm cao — **A1**

Answer: **14 cm**

Question 3

adds at least two values — **M1**

1,358 cao — **A1**

Answer: **1,358**

Question 4

subtraction seen — **M1**

38 cao — **A1**

Answer: **38**

Question 5

identifies the highest and lowest — **M1**

31 cao — **A1**

Answer: **31**

Question 6

adds at least two values — **M1**

adds all four values — **M1**

1,070 cao — **A1**

Answer: **1,070**

Question 7

subtraction seen — **M1**

8 cao — **A1**

Answer: **8**

Question 8

uses the key — **M1**

subtracts — **M1**

6 cao — **A1**

Answer: **6**

Question 9

10 litres cao — **B1**

Answer: **10 litres**

Question 10

uses the key — **M1**

adds the three values — **M1**

80 cao — **A1**

Answer: **80**

Question 11

addition seen — **M1**

271 cao — **A1**

Answer: **271**

Question 12

identifies the highest and lowest — **M1**

28 cao — **A1**

Answer: **28**

Question 13

13:00 cao — **B1**

Answer: **13:00**

Question 14

adds at least two values — **M1**

adds all four values — **M1**

250 cao — **A1**

Answer: **250**

Question 15

addition seen — **M1**

83 cao — **A1**

Answer: **83**

Question 16

1,070 cao — **B1**

Answer: **1,070**

Question 17

adds the boys and girls — **M1**

21 cao — **A1**

Answer: **21**

Question 18

compares the changes — **M1**

11:00 cao — **A1**

Answer: **11:00**

Question 19

5 degrees cao — **B1**

Answer: **5 degrees**

Question 20

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

20 minutes cao — **A1**

Answer: **20 minutes**

Question 21

Shows steady increase: total increase 30 - 18 = 12 over 20 minutes so 6 per 10 minutes — **M1**

6 cao — **B1**

Answer: **6**

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Question 22

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

Answer: **73**

Question 23

addition seen	**M1**
153 cao	**A1**

Answer: **153**

Question 24

both totals found	**M1**
12 cao	**A1**

Answer: **12**

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