9.3 Statistics: Line Graphs and Tables: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

Bus: 17
Car: 83
Walk: 82
Bike: 87

What is the total for all four groups?

Answer: ___

(3)

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2 The table shows the tickets sold for four groups.

Red: 769
Blue: 57
Green: 398
Yellow: 677

How many more tickets were there for Green than for Blue?

Answer: ___

(1)

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3 A school club survey is shown.

Boys: 27 chose Art, 26 chose Music
Girls: 29 chose Art, 10 chose Music

How many pupils chose Art?

Answer: ___

(2)

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4 A school club survey is shown.

Boys: 15 chose Football, 19 chose Netball
Girls: 22 chose Football, 29 chose Netball

How many boys were surveyed?

Answer: ___

(2)

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

Spring: 79
Summer: 50
Autumn: 60
Winter: 77

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

Answer: ___

(2)

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6 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 = 8, 10:00 = 9, 11:00 = 11, 12:00 = 16, 13:00 = 22.

What was the value at 8:00?

Answer: ___ cm

(1)

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

Spring: 874
Summer: 722
Autumn: 296
Winter: 463

How many more pupils were there for Spring than for Autumn?

Answer: ___

(2)

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8 A school club survey is shown.

Boys: 26 chose Art, 17 chose Music
Girls: 18 chose Art, 7 chose Music

How many boys were surveyed?

Answer: ___

(2)

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9 The line graph records how many goals a youth team scored each month: January 3, February 2, March 4, April 6.

By how many goals did the total number of goals for March and April exceed the total for January and February?

(2)

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10 Part of a train timetable is shown.

Dunmere: 06:55
Hollin: 07:25
Bridgton: 07:45
Eastleigh: 08:22

Ben arrives at Dunmere station at 06:50.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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11 The table below shows the number of sweets in five jars: 12, 15, 12, 18, 15.

(a) What is the mode of this set of numbers? **(1)**

(b) Explain why this measure of centre is useful for these data. **(2)**

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12 A line graph shows the temperature in degrees Celsius at different times. The points on the graph are: 8:00 = 8, 9:00 = 7, 10:00 = 8, 11:00 = 7, 12:00 = 5, 13:00 = 9.

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

Answer: ___

(2)

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Mark scheme · 9.3 Statistics: Line Graphs and Tables: 30-minute Pack

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

Question 1

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

Answer: **269**

Question 2

341 cao	B1

Answer: **341**

Question 3

adds the boys and girls	M1
56 cao	A1

Answer: **56**

Question 4

adds both boys' values	M1
34 cao	A1

Answer: **34**

Question 5

identifies the highest and lowest	M1
29 cao	A1

Answer: **29**

Question 6

7 cm cao	B1

Answer: **7 cm**

Question 7

subtraction seen	M1
578 cao	A1

Answer: **578**

Question 8

adds both boys' values	M1
43 cao	A1

Answer: **43**

Question 9

Computes March + April = 4 + 6 = 10 and Jan + Feb = 3 + 2 = 5	M1
Difference 5 cao	B1

Answer: **5**

Question 10

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

Answer: **5 minutes**

Question 11

(a) 12 or 15 cao (both occur twice) accept either with explanation	B1

(a) Answer: **12 or 15**

(b) Explains that mode shows the most common number which helps see typical jar size	M1
(b) Gives reason e.g. shows most jars have 12 or 15 sweets so it tells the common amount cao	B1

(b) Answer: **The mode shows the most common number of sweets. It is useful because most jars have either 12 or 15 sweets, so it tells us the typical jar size.**

Question 12

compares the changes	M1
12:00 cao	A1

Answer: **12:00**

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