9.3 Statistics: Line Graphs and Tables: 10-minute Pack

Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A table shows how many minutes children read each day for four days: 20, 25, 30, 15.

What is the mean reading time per day? (Mean = total divided by number of days)

(2)

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

North: 69
South: 51
East: 70
West: 65

How many more books were there for North than for South?

Answer: ___

(2)

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3 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 = 10, 10:00 = 13, 11:00 = 11, 12:00 = 14, 13:00 = 15.

What was the value at 8:00?

Answer: ___ cm

(1)

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

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

How many whole symbols are needed to show 180 items?

Answer: ___

(2)

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5 A table shows the number of birds seen in a park over three mornings: 7, 11, 9.

Draw a conclusion about whether the number of birds is increasing, decreasing or fluctuating. Give a reason using the table numbers.

(2)

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Mark scheme · 9.3 Statistics: Line Graphs and Tables: 10-minute Pack

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

Question 1

Adds times 20 + 25 + 30 + 15 = 90 or equivalent	**M1**
Mean 22.5 cao	**B1**

Answer: **22.5**

Question 2

subtraction seen	**M1**
18 cao	**A1**

Answer: **18**

Question 3

7 cm cao	**B1**

Answer: **7 cm**

Question 4

divides by the key	**M1**
9 cao	**A1**

Answer: **9**

Question 5

Identifies pattern fluctuating with numbers 7, 11, 9 or similar	**M1**
Gives reason e.g. increases then decreases so fluctuating cao	**B1**

Answer: **Fluctuating; it goes up from 7 to 11 then down to 9, so it does not only increase or decrease.**

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