9.1 Reasoning: Statistics: 10-minute Pack

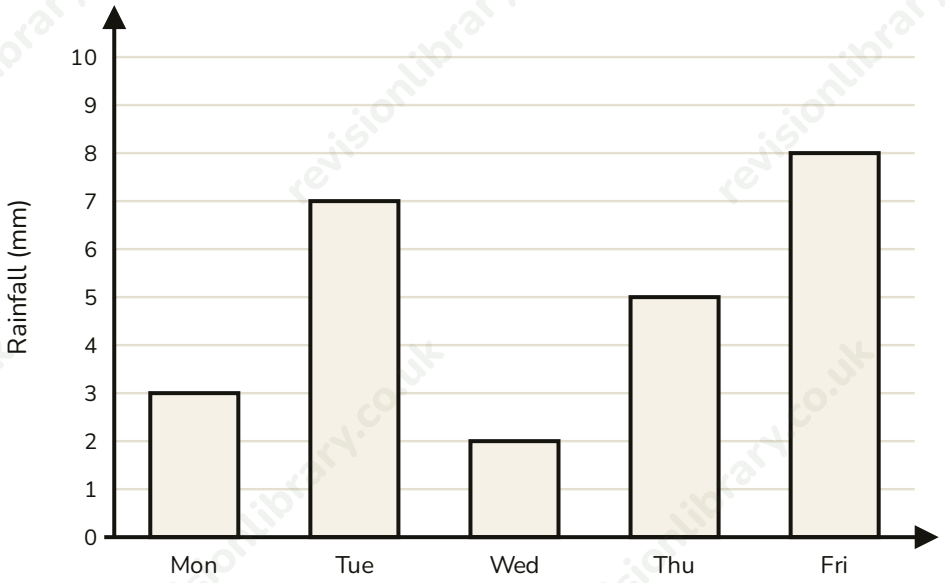
STA NC-KS2-MA-STATS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The bar chart shows the rainfall, in mm, recorded at a school in Cumbria over five days.



(a) Which day had the least rainfall? **(1)**

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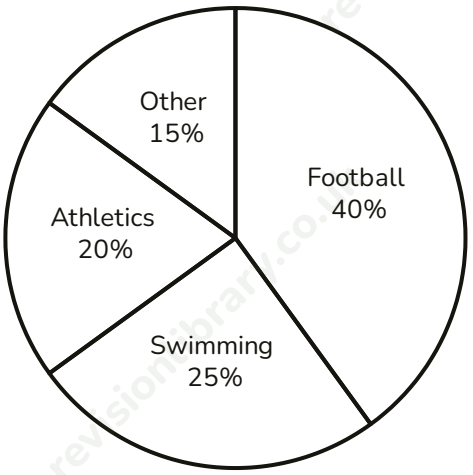
(b) Work out the total rainfall for Tuesday and Friday combined. **(2)**

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2 A survey of 80 pupils' favourite sport is shown in a pie chart: Football 40%, Swimming 25%, Athletics 20%, Other 15%.

Favourite sport (80 pupils surveyed)



(a) How many pupils chose Athletics? **(1)**

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(b) The following year, the same 80 pupils were surveyed again. The number who chose Swimming had increased by 20% compared with the first survey. Work out the number of pupils who chose Swimming in the second survey. **(2)**

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(c) In the second survey, the number of pupils who chose Other stayed the same as in the first survey. Work out how many fewer pupils chose Other than chose Swimming in the second survey. **(2)**

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Mark scheme · 9.1 Reasoning: Statistics: 10-minute Pack

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

Question 1

(a) Wednesday cao	**B1**
(a) Answer: **Wednesday**	
(b) 7 + 8 seen or intention to add Tuesday and Friday values	**M1**
(b) 15 mm cao	**A1**
(b) Answer: **15 mm**	

Question 2

(a) 16 cao	**B1**
(a) Answer: **16 pupils**	
(b) original Swimming = 25% of 80 = 20, and 20 x 1.2 (or 20 + 20% of 20) seen	**M1**
(b) 24 pupils cao	**A1**
(b) Answer: **24 pupils**	
(c) Other = 15% of 80 = 12 seen	**M1**
(c) 12 fewer, ft from part (b), cao	**A1**
(c) Answer: **12 fewer pupils**	

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