6.1 Statistics: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Miss Okafor asked all 20 pupils in her Year 7 form group how many siblings (brothers and sisters) they each have. The results are shown in the frequency table below.
Number of siblings (x): 0, 1, 2, 3, 4
Frequency (f): 5, 7, 4, 3, 1

Number of siblings (x)	Frequency (f)
0	5
1	7
2	4
3	3
4	1

(a) Write down the mode. **(1)**

.....

(b) Find the median number of siblings. **(2)**

.....

(c) Calculate the mean number of siblings. **(2)**

.....

© Revision Library | revisionlibrary.co.uk

2 Mr Hughes's class of 30 pupils voted for their favourite sport. The bar chart results were: Football 12 pupils, Netball 8 pupils, Swimming 6 pupils, Athletics 4 pupils.

(a) Which sport was the most popular? **(1)**

(b) How many more pupils chose football than chose swimming? **(1)**

(c) What fraction of the class chose netball? Give your answer in its simplest form. **(2)**

© Revision Library | revisionlibrary.co.uk

Mark scheme · 6.1 Statistics: 10-minute Pack

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

Question 1

(a) 1 cao	**B1**
(a) Answer: **1**	
(b) Uses cumulative frequencies (5, 12, 16, 19, 20) to locate the 10th and 11th values	**M1**
(b) 1 cao	**A1**
(b) Answer: **1**	
(c) Sum of (x times f) = 0x5 + 1x7 + 2x4 + 3x3 + 4x1 = 28, divided by 20	**M1**
(c) 1.4 cao	**A1**
(c) Answer: **1.4**	

Question 2

(a) Football cao	**B1**
(a) Answer: **Football**	
(b) 6 cao	**B1**
(b) Answer: **6**	
(c) 8/30 seen	**M1**
(c) 4/15 cao	**A1**
(c) Answer: **4/15**	

© Revision Library | revisionlibrary.co.uk