Practice worksheet | Statistics

A complete small investigation and report

Name: _____ Date: _____

6 questions | 12 marks

1. Check the total frequency in the loans table. [2 marks]

Fictional teaching data: books borrowed in one fortnight

Books borrowed	Frequency
4	1
5	2
6	3
7	2
8	2
9	1
13	1

2. Use the loans table to calculate the total number of loans. [2 marks]

Fictional teaching data: books borrowed in one fortnight

Books borrowed	Frequency
4	1
5	2
6	3
7	2
8	2
9	1
13	1

3. Find the mean loans per student. [2 marks]

Fictional teaching data: books borrowed in one fortnight

Books borrowed	Frequency
4	1
5	2
6	3
7	2
8	2
9	1
13	1

4. Why can the median be 6.5 books when counts are whole numbers? [2 marks]

Fictional teaching data: books borrowed in one fortnight

Books borrowed	Frequency
4	1
5	2
6	3
7	2
8	2
9	1
13	1

5. The record of 13 loans is confirmed correct. Should it be removed because it is higher than the others? Explain. [2 marks]

6. Suggest an improvement if the question becomes “How much do students across the whole year borrow during a term?” [2 marks]