

Arithmetic Mean



ADVANCED

Name: _____

Date: _____

Score: ____/____

Key Formula: Mean = Sum of all observations ÷ Number of observations | Range = Highest value – Lowest value

Section A: Data Interpretation

Q1. A frequency table shows app sizes (in MB): (3 marks)

App Size (MB)	78	97	99	100	106	109	112	114	123	129	132	134	141	145	156
Frequency	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

- (a) Find the mean app size.
- (b) Find the range.
- (c) Which apps are above the mean?

Q2. The mean of n numbers is M . If each number is multiplied by k , prove (with an example using $n=4$) that the new mean is kM . (4 marks)

Q3. The ages of the racers in a bicycle race: **22, 18, 19, 21, 25, 25, 21, 20, 17, 21, 23, 26**
Find the mean age. Is the mean age a whole number? What does this tell us? (4 marks)
