

Other Summary Statistics – GCSE Statistics

1. No.7

The number of lambs born on each of the first 10 days in April are given.

8 11 9 14 12 14 10 15 14 13

Circle the first 4-point moving average.

[1 mark]

9.5 10.5 11 12

2. No.13

Miss Peng sets a practice exam for her students.

There are three papers, each of which has a different weighting.

The table shows the marks scored by Anneka and the weighting for each paper.

Paper	Weighting	Mark
1	60	82
2	40	59
3	20	26

- (a) Calculate the weighted mean of Anneka's marks.

[3 marks]

Answer _____

- (b) Adam has recently joined the school.

Miss Peng decides to compare Adam's performance to the rest of the class.

She calculates his standardised scores for each paper using the formula,

$$\text{Standardised score} = \frac{(\text{value} - \text{mean})}{\text{standard deviation}}$$

- (b) (i) In Paper 1, Adam scored 58 marks.

The class mean was 56 marks and the standard deviation was 10 marks.

Calculate Adam's standardised score for Paper 1.

[2 marks]

Answer _____

- (b) (ii) Adam's standardised scores for Papers 2 and 3 were 0 and -0.3 respectively.

Which of the three papers did he perform best on?

Tick (✓) a box and give a reason for your answer.

[1 mark]

Paper 1 ☐ Paper 2 ☐ Paper 3 ☐

Reason _____

