Probability experiments

① A pentagonal unbiased spinner with sides numbered 1 to 5 was spun 100 times. (★★★)

The frequency that the spinner landed on each number was recorded in the table below.

Score on spinner	1	2	3	4	5
Frequency	18	23	22	19	18

a   Abdul says that the spinner must be biased because if it was fair the frequency for each score would be the same. Explain why Abdul is wrong. (1 mark)

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b   Calculate the relative frequency of obtaining a score of 3 on the spinner. Give your answer as a fraction in its simplest form. (2 marks)

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c   If the spinner was spun 500 times, use the relative frequency to estimate how many times the spinner would give a score of 4. (1 mark)

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[Total: 4 marks]