

10 John and Jake think a dice is biased.

They both roll the dice a number of times.
The table below shows the results of their trials.

	Number of trials	Number of sixes	Relative frequency
John	60	13	
Jake	150	44	

- (a) Calculate the relative frequencies, to 2 decimal places, for each boy and complete the table. [2]
- (b) Explain why Jake's relative frequency gives a more reliable estimate of the likelihood of rolling a six.

Answer _____ [1]

9. A calculator displays a number in standard form.



Write the number as an ordinary number.

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(1)

The equation

$$x^3 + 2x = 50$$

has a solution between 3 and 4.

Use trial and improvement to find this solution.

Give your answer correct to 1 decimal place.

You must show all your working.

A and B are two points.

A
x

B
x

Shade the region which contains those points which are both closer to A than to B, and less than 5cm from B.