M8 =12 days to go!

1 John and Jake roll a dice which 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) Which boy's trials give a more reliable estimate of the likelihood of rolling a six on **this** dice?

Give a reason for your answer.

Answer _____ because _____ [1]

$27^{\frac{2}{3}}$

.....

(2)

Write the numbers below in the form 5^n

(a) 5

.....

(1)

(b) 625

.....

(1)

(c) 1

.....

(1)

(d) $\frac{1}{5}$

.....

(1)

(e) $\sqrt{5}$

.....

(1)

(f) $\sqrt{125}$

.....

(2)