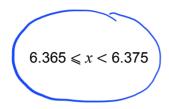
1 When rounded to 3 significant figures, x = 6.37

Circle the correct error interval.

[1 mark]





$$6.369 \le x < 6.379$$

$$6.365 \le x < 6.3749$$

 $6.36 \le x < 6.38$

[2 marks]

Millie is estimating the value of $\frac{1}{(\sqrt[3]{8.34})^2 \times 10.2^4}$

She rounds each decimal number to 1 significant figure.

2 (a) Work out Millie's estimate.

You must show your working. $\frac{1}{(\sqrt[3]{8})^2 \times 10} = \frac{1}{\sqrt[3]{2} \times 10} = \frac{1}{40}$

	1	
Answer	40	

2 (b) Millie says,

"My estimate must be more than the exact value."

Without working out the exact value, give a reason how she can know this.

[1 mark]

both numbers are rounded down.

