1   By rounding each number to the nearest 10, estimate the value of   262 ÷ 19.8

[2 marks]

Answer

2 Millie is estimating the value of $\dfrac{1}{\left(\sqrt[3]{8.34}\right)^2 \times 10.21}$

She rounds each decimal number to 1 significant figure.

2 (a) Work out Millie's estimate.

You **must** show your working.

[2 marks]

Answer _____

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]

3   Archie flips a biased coin 200 times.

Here is some information about the outcomes after each 50 flips.

Total number of flips	50	100	150	200
Number of heads	10	27	37	52

Work out the best estimate for the probability of flipping a head.

Give a reason for your answer.

[2 marks]

Answer _____

Reason _____

_____

_____