

Estimations and Approximations – www.m4ths.com

Question 1 – Round each number to 1 SF

232	37	4.8	1820
13	1.2	68	156
0.58	2450	372	9.8
36.2	24	509.1	0.023
7.78	57	491	0.0079

FOR ESTIMATIONS/APROXIMATIONS YOU MUST!

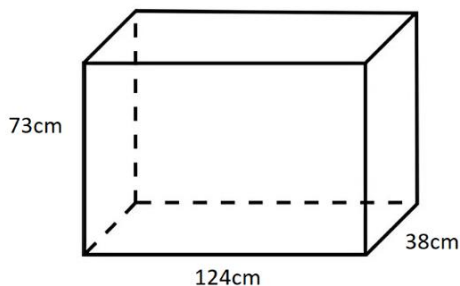
- (1) Round each number to 1 significant figure
- (2) Show the numbers you use in your calculations
- (3) Carry out the calculation and write your answer

Question 2 – Using the rules above, without a calculator, find an approximation for each below:

- 34×47
- 5.7×3.3
- $120 \div 52$
- $1.8 + 12$
- $37 - 18$
- $\frac{64 \times 18}{27}$
- $(2.3 + 3.6)^2$
- 697×3.7
- 3.3×12
- $389 \div 113$
- 1.46×9.3
- $5890 \div 176$
- 52×0.48
- $\frac{427 \times 1.8}{96}$
- 912×4.7
- $\frac{32 \times 18}{0.53}$
- 0.82×19
- $3.7 + 4.8 \times 5.2$

Question 3

Find an approximation for the volume of the cuboid below giving your answer in cm^3 . Show all workings!



Question 4*

A and B are integers. A = 1000 to 1SF and B = 500 to 1SF. Find the maximum difference between A and B.

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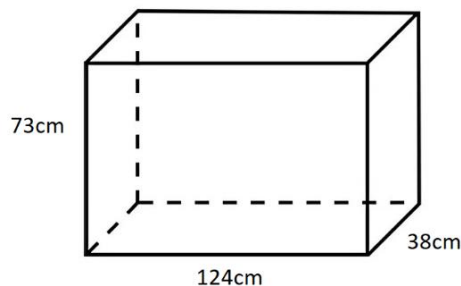
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