

Estimation

1. Without using your calculator and by rounding each number correct to 2 significant figures, estimate

the value of $\frac{18.5 \times 18.5}{100.5 + 43.2}$. You must show all your working. [4]

2.
$$x = \frac{4.81 \times 1.085795}{16.88}$$

(a) In the spaces provided, write each number in this calculation correct to 3 significant figures. [3]

$$\frac{\text{ } \times \text{ } }{\text{ } + \text{ }}$$

(b) Use your answer for part (a) to estimate the value of x . [1]

3. Write each number correct to 3 significant figures and estimate the value of the calculation.

You must show your working. $2.05 \times 4.2750 \div 7.817$ [2]

Answers

1) $\frac{18.5 \times 18.5}{100.5 + 43.2} \approx 4$ 2) $2 \times 30/30 \approx 0.5$ 3) $2 \times 4 \div 8 \approx 1$

Significant Figures

1. State the number of significant figures for each of the following

(a) 123 (b) 1200 (c) 0.05 (d) 50001 (e) 12 + 100.052 (f) 12.0 (g) 0.0400 (h) 0.0400

2. Write the following numbers correct to one significant figure.

(a) 7482 (b) 0.007882 [1]

3. Write 0.046875 correct to 2 significant figures. [1]

4. Write 0.007504 correct to 2 significant figures. [1]

5. Write 5.678 correct to 2 significant figures. [1]

6. Write 50000 correct to 2 significant figures. [1]

7. Write 0.047852 correct to 2 significant figures. [1]

8. Write these numbers correct to 2 significant figures.

(a) 0.007489 [1] (b) 30 000 [1]

9. Write 71490 correct to 2 significant figures. [1]

10. Write 0.040 340 7 correct to 2 significant figures. [1]

11. Write 4.127 correct to 2 significant figures. [1]

12. Write 20.4571 correct to 4 significant figures. [1]

13. Write 0.0007 correct to 4 significant figures. [1]

14. (a) Use a calculator to work out $\frac{5^{100} - 49}{0.13 - 0.015}$

Write down all the digits in your calculator display. [1]

(b) Write your answer to (a) correct to 2 significant figures. [1]

15. Calculate $\frac{16.379 - 0.678}{4.2} \approx 1.24$

Give your answer correct to 2 significant figures. [2]

16. Calculate $(2.1 + 0.075)^2$, giving your answer correct to 4 significant figures. [2]

17. Use your calculator to find the value of 1.25^7 .

Give your answer correct to 3 significant figures. [2]

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