

A Rounding and Estimation (Non-Calc)

1 Write 24.07839

(a) correct to 2 decimal places

24.07839
↑

24.08 [1]

(b) correct to the nearest 10.

24.07839
↑

20 [1]

1 Write 0.0301497

(a) correct to 3 decimal places

0.0301497
↑

0.030 [1]

(b) correct to 4 significant figures.

0.0301497
↑

0.03015 [1]

1 (a) Write 4347849 correct to the nearest ten thousand.

4347849
↑

4350000 [1]

(b) Write 0.0040243 correct to 2 significant figures.

0.0040243
↑

0.0040 [1]

1 (a) Write 0.047996 correct to 4 decimal places.

0.047996
↑

0.0480 [1]

(b) Write 60449 correct to 3 significant figures.

60449
↑

60400 [1]

- 2 (a) Write 5249.6 correct to two significant figures.

5249.6
↑

5200 [1]

- (b) Write 0.0030626 correct to three decimal places.

0.0030626
↑

0.003 [1]

- 2 Write 57.3997 correct to 4 significant figures.

57.3997
↑

57.40 [1]

- 5 (a) Write 7.29784 correct to 3 significant figures.

7.29784
↑

7.30 [1]

- 2 Write 4049 correct to 2 significant figures.

4049
↑

4000 [1]

- 4 (a) Write 1.8796 correct to 4 significant figures.

1.8796
↑

1.880 [1]

- 4 By writing each number correct to 1 significant figure, find an estimate for the value of

$$\frac{2.8 \times 82.6}{27.8 - 13.9}$$

$$\frac{3 \times 80}{30 - 10} = \frac{240}{20} = \frac{24}{2}$$

12 [2]

- 4 By writing each number in the calculation correct to 1 significant figure, work out an estimate for the value of

$$\frac{6.7 \times 2.1}{18 - 5.9}$$

You must show all your working.

$$\frac{7 \times 2}{20 - 6} = \frac{14}{14}$$

$$= 1$$

..... 1 [2]

5 $T = \frac{49.2 - 9.59}{4.085 \times 2.35}$

By writing each number correct to 1 significant figure, work out an estimate for T .
You must show all your working.

$$\frac{50 - 10}{4 \times 2} = \frac{40}{8}$$

$$= 5$$

..... 5 [2]

9 $D = \sqrt{\frac{1.95 \times 9.92^2}{8.07}}$

By writing each number correct to 1 significant figure, work out an estimate for D .

$$\sqrt{\frac{2 \times 10^2}{8}} = \sqrt{25}$$

$$= \sqrt{\frac{2 \times 100}{8}} = 5$$

$$= \sqrt{\frac{200}{8}}$$

$D =$ 5 [3]