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   0.030 149 7

    (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   4 347 849   correct to the nearest ten thousand.

        4 347 849

                                  4 350 000   [1]

    (b) Write   0.004 024 3   correct to 2 significant figures.

        0.0040243

                                  0.0040   [1]

1   **(a)** Write   0.047 996   correct to 4 decimal places.

        0.047996

                                  0.0480   [1]

    (b) Write   60 449   correct to 3 significant figures.

        60 449

                                  60 400   [1]

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

        5249.6

                                  5 200   [1]

    (b) Write 0.0030626 correct to three decimal places.

        0.0030626

                                  0.003   [1]

2 Write 57.3997 correct to 4 significant figures.

$57.3\boxed{99}7$
↑

.... 57.40 .... [1]

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

$7.2\boxed{97}84$
↑

.... 7.30 .... [1]

2 Write 4049 correct to 2 significant figures.

$4\boxed{0}49$
↑

.... 4000 .... [1]

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

$1.87\boxed{96}$
↑

.... 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.

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

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

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

$$= \sqrt{25}$$

$$= 5$$

$D =$ _____5_____ [3]