

Name: _____

Date: _____

- 1. Use your calculator to solve the following expressions.
Estimate your answer correct to 3 significant figures.**

(a) $\frac{312.8 \times 61.6}{58.4 \times 2980}$

(d) $\sqrt{\frac{35.807}{101.09}}$

(b) $\sqrt[3]{8243}$

(e) $\frac{4.18 \times 0.0309}{0.0212}$

(c) $\frac{49.9}{0.0101} + \frac{110 - 70.15}{3991}$

(f) $\frac{3909}{20390}$

- 2. Write, correct to one significant figure, the value of**

(a) $\frac{83.5}{0.0419}$

(c) 9801×0.0613

(b) $\sqrt{\frac{18.01 \times 36.01}{1.989}}$

(d) $\frac{(0.98452)^3 \times \sqrt{2525}}{102.016}$

- 3. Use your calculator to find the value of $\frac{(0.98452)^3 \times \sqrt{2525}}{102.016}$ correct to 3 significant figures.**

- 4. Evaluate the following using a calculator. Give your answers correct to 4 significant figures.**

(a) $\sqrt[3]{\frac{(1.92)^2}{(4.3)^3 - \sqrt{4.788}}}$

(b) $\frac{7.295 - \sqrt{7.295}}{(7.295)^2} + \frac{(6.98)^3 - 6.98}{\sqrt[3]{6.98}}$

- 5. The area of the square on the right is 30 cm^2 .**



- (a) Find the length of the side of the square, in 3 significant figures.
 (b) If 5 squares of the same size are placed side by side as shown in the image below, find the total perimeter of this image. Write your answer correct to 3 significant figures.

