

Estimation and Approximation

1. (a) Estimate $\frac{103.98}{5.04}$, correct to 1 significant figure.
 (b) Use your answer in (a) to estimate the value of $\frac{10398}{50.4}$.

2. Estimate, correct to two significant figures, the value of $\frac{\sqrt{16.4388} - 2.983^2}{\sqrt[3]{215.95}}$.

3. (a) Round off 244.923 and 184.603 respectively correct to 2 significant figures.
 (b) Hence, estimate the value of $\frac{244.923}{184.603}$ correct to 1 significant figure.
 (c) Using a calculator, evaluate the value of $\frac{244.923}{184.603}$, giving your answer correct to 1 significant figure.

Answer Key
 1. (a) 20
 (b) 200
 2. -0.81

3. (a) 240, 180
 (b) 1
 (c) 1