

# Rounding & Estimation



- i. Write the number 3167 to the nearest thousand
- ii. Write the number 1.847 to the nearest whole number
- iii. Round the following numbers to the significant figure given in brackets
  - 346 (1 s.f.)
  - 5349 (1 s.f.)
  - 63974 (2 s.f.)
  - 865325 (3 s.f.)
  - 78568 (4 s.f.)
  - 255.89 (2 s.f.)
  - 0.065465 (2 s.f.)
  - 79959 (2 s.f.)
- iv. Round the following numbers to the decimal place given in brackets
  - 3.561 (1 d.p.)
  - 7.34214 (3 d.p.)
  - 5.325 (2 d.p.)
  - 10.346 (1 d.p.)
  - 7.6783 (2 d.p.)
  - 85.655 (2 d.p.)
  - 3.141592654 (5 d.p.)
  - 0.0000324 (2 d.p.)
- v. Estimate the answer to the following expressions
  - $\frac{3.9 \times 4.1}{2.2}$
  - $\frac{9.1 + 3.4}{4.2}$
  - $27.2 \times 4.7$
  - $\frac{6.7^2 - 3.6}{4.97}$
  - $2.1(4.9 + 5.6)$
  - $\frac{10.75 + \sqrt{10}}{13.96}$

vi. Using a calculator, Sally calculated that:

$$45.3 \times 0.56^2 = 145.4081$$

However, she thinks it maybe wrong. Using estimation to approximate the actual answer, has Sally got the correct answer?