

Using results

- 1) Given $4.2 \times 190 = 798$, evaluate:
- a) $42 \times 1900 =$
- b) $0.42 \times 1.9 =$
- 2) Given $0.73 \times 462 = 337.26$, evaluate:
- a) $73 \times 46.2 =$
- b) $33.726 \div 7.3 =$

Truncation

- a) Truncate 374.52 to the tens.
- b) Truncate 12546 to the thousands.
- c) Truncate 21.856 to one decimal place.
- d) Truncate 7.386 to an integer.
- e) A number is truncated to the hundreds and given as 5000. What is the largest integer the number could have been?

Rounding to powers of ten

- 1) Round to the nearest integer:
- a) 4.45
- b) 7.5
- c) 2.178
- 2) Round to the nearest 10:
- a) 204
- b) 35
- c) 83.7
- 3) Round to the nearest 100:
- a) 1080
- b) 47
- c) 22965
- 4) Round to the nearest 1000:
- a) 3099
- b) 46612
- c) 24200555
- 5) Round the number 0.5772156649 to:
- a) One decimal place
- b) Two decimal places
- c) Three decimal places

Significant figures

- 1) Given the number 34587, state:
- a) The first significant figure
- b) The third significant figure
- 2) Given the number 0.0024911, state:
- a) The first significant figure
- b) The second significant figure

Rounding to significant figures

- 1) Round to one significant figure:
- a) 3528
- b) 0.0117
- c) 2.735
- 2) Round to two significant figures:
- a) 80702
- b) 9.622
- c) 0.09952
- 3) Round to three significant figures:
- a) 23746
- b) 7.83615
- c) 0.089027

Estimation

- Estimate:
- a) 21.4×986.3
- b) $76.28 \div 0.0441$
- c) $\frac{53.6 \times 18.9}{4.76 \times 5.13}$

Interpreting limits of accuracy

A bag of flour weighs 480g to the nearest 10g.

What is the least the bag of flour could weigh?

What is the most the bag of flour could weigh?

Using a calculator

- 1) Use a calculator to work out $\frac{3.22 + 9.74}{\sqrt{3.37}}$
- a) Write down the full calculator display
- b) Round your answer to three decimal places
- 2) Use a calculator to work out $\sqrt{9.77 - 2.85} \times 0.15^2$
- a) Write down the full calculator display
- b) Round your answer to two significant figures