

Basic Skills Practice

Rounding, Estimating and Significant Figures

- 1 a) Round 5743.3457 to the nearest hundred.
- b) A rectangular field is 73.54m by 94.26m. Estimate its area.
- c) Round 20913.523 to two significant figures.

Fractions

- 2 a) $\frac{5}{8} \times 120 =$
- b) $\frac{2}{5} \div \frac{3}{8} =$

Mixed Numbers

- 3 a) $27\frac{1}{6} - 18\frac{5}{8} =$
- b) $5\frac{10}{11} \times 5\frac{7}{9} =$

Multiplication

- 4 a) $82 \times 57 =$
- b) $8.4 \times 7.2 =$
- c) $(7.41 \times 10^8) \times (8.43 \times 10^5) =$

Division

- 5 a) $4572 \div 9 =$
- b) $6665348 \div 15 =$
- c) $\frac{35 \times 42 \times 24 \times 56}{25 \times 64 \times 32 \times 66} =$

Squaring and Cubing Numbers

- 6 a) $12^2 - 4^3 =$
- b) $5^3 + 8^2 =$

Ratio

- 7 a) Mary, Mungo and Midge split some sweets in the ratio 11:3:6. Mungo got 45 sweets. How many did the others get?
- b) Freda, Bill and Murray split 80 sweets in the proportion 5:2:8. How many more sweets did Murray get than Freda?
- c) Rodney, Raquel and Del raised some money in the proportion of 2:5:8. If Raquel raised £7.20 more than Rodney, how much did the three of them raise altogether?

Direct Proportion

- 8 A is directly proportional to B.
When A is 7, B is 13.
- Find a formula relating A to B
 - Calculate B when A = 15.
 - Calculate A when B = 39.

Volume

- 9
- A box has the dimensions 8cm by 124cm by 76cm. Calculate the volume of the box.
 - A sphere has a radius of 56cm. What is the volume of the sphere?
 - A triangular prism has a cross sectional area of 35cm^2 and a length of 45cm. What is the volume of the prism?