

Basic Skills Practice

Rounding, Estimating and Significant Figures

- 1 a) Round 348.967 to the nearest tenth.
- b) A rectangular field is 98.47m by 231.36m. Estimate its area.
- c) Round 534.785 to two significant figures.

Fractions

- 2 a) $\frac{3}{8} \times 96 =$
- b) $\frac{4}{5} \div \frac{3}{7} =$

Mixed Numbers

- 3 a) $6\frac{5}{6} - 3\frac{7}{8} =$
- b) $7\frac{5}{11} \times 1\frac{2}{5} =$

Multiplication

- 4 a) $43 \times 37 =$
- b) $6.9 \times 8.2 =$
- c) $(2.3 \times 10^3) \times (8.1 \times 10^6) =$

Division

- 5 a) $3690 \div 9 =$
- b) $234365 \div 15 =$
- c) $\frac{18 \times 27 \times 45 \times 121}{81 \times 22 \times 24 \times 99} =$

Squaring and Cubing Numbers

- 6 a) $7^3 - 13^2 =$
- b) $11^2 + 8^3 =$

Ratio

- 7 a) Mary, Mungo and Midge split some sweets in the ratio 2:5:7. Mungo got 56 sweets. How many did the others get?
- b) Freda, Bill and Murray split 300 sweets in the proportion 5:7:8. 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 £18.90 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 9.
- Find a formula relating A to B
 - Calculate B when A = 15.
 - Calculate A when B = 30.

Volume

- 9
- A box has the dimensions 18cm by 24cm by 16cm. Calculate the volume of the box.
 - A sphere has a radius of 18cm. What is the volume of the sphere?
 - A triangular prism has a cross sectional area of 75cm^2 and a length of 94cm. What is the volume of the prism?