

Basic Skills Practice

Rounding, Estimating and Significant Figures

- 1 a) Round 348.967 to the nearest ten.
- b) A rectangular field is 104.56m by 87.36m. Estimate its area.
- c) Round 2038.9987 to two significant figures.

Fractions

- 2 a) $\frac{3}{5} \times 72 =$
- b) $\frac{4}{7} \div \frac{3}{4} =$

Mixed Numbers

- 3 a) $4\frac{5}{6} + 3\frac{7}{8} =$
- b) $6\frac{5}{9} \times 3\frac{2}{3} =$

Multiplication

- 4 a) $26 \times 16 =$
- b) $4.3 \times 7.2 =$
- c) $(2.3 \times 10^3) \times (8.1 \times 10^6) =$

Division

- 5 a) $279 \div 9 =$
- b) $18291 \div 33 =$
- c) $\frac{65 \times 56 \times 91 \times 90}{81 \times 26 \times 24} =$

Squaring and Cubing Numbers

- 6 a) $3^3 - 2^2 =$
- b) $7^2 + 4^3 =$

Ratio

- 7 a) Mary, Mungo and Midge split some sweets in the ratio 3:7:15. Mungo got 56 sweets. How many did the others get?
- b) Bill and Murray split 300 sweets in the proportion 7:8. How many more sweets did Murray get?
- c) Rodney, Raquel and Del raised some money in the proportion of 2:5:8. If Raquel raised £12.60 more than Rodney, how much did the three of them raise altogether?

Direct Proportion

- 8 A is directly proportional to B.
When A is 5, 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 35cm by 45cm by 20cm. Calculate the volume of the box.
 - A sphere has a radius of 15cm. What is the volume of the sphere?
 - A triangular prism has a cross sectional area of 47cm^2 and a length of 60cm. What is the volume of the prism?