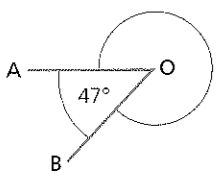
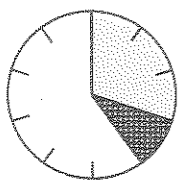
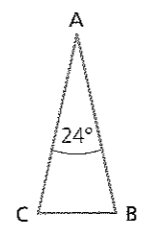
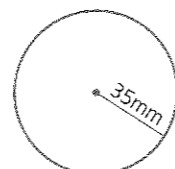
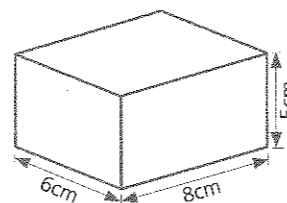


# SECTION 1 | Test 3

| A  | Answer             |
|--|--------------------|
| 1 Write as a decimal $100 + \frac{3}{10} + \frac{7}{1000}$ . | 100.307            |
| 2 $4\frac{3}{4} \times 8 =$                                  | 38                 |
| 3 $£2 - (35p + 63p) =$                                       | £1.02              |
| 4 $1\frac{1}{4}l - 900ml =$ ml                               | 350ml              |
| 5 $3.8 - 2.76 =$   | 1.04               |
| 6 $35\% = \frac{35}{100} = \frac{7}{20}$                     |                    |
| 7 $g \times 100 = 4kg$                                       | 40g                |
| 8 7.43 a.m. to noon = h min                                  | 4h 17min           |
| 9 $\frac{553mm}{7} =$ cm mm                                  | 7cm 9mm            |
| 10 $830g \times 5 =$ kg                                      | 4.15kg             |
| 11 a 10% of £12.00 =<br>b 70% of £12.00 =                    | a £1.20<br>b £8.40 |
| 12 $\frac{2}{3}$ of £1.08 = £                                | £0.72              |

| B  | Answer                  |
|--|-------------------------|
| 1 Multiply the sum of 29 and 18 by 8.  | 376                     |
| 2 Decrease £3.50 by 20%.   | £2.80                   |
| 3  Find the reflex angle AOB.   | 313°                    |
| 4 How many times is 0.7m contained in 28m?   | 40                      |
| 5 How many days in 26 weeks?   | 182                     |
| 6 What percentage of 1kg is 550g?  | 55%                     |
| 7 Find the time in hours and minutes from 09:40 to 13:25.  | 3h 45min                |
| 8 What is the cost of 2.5kg at 18p per $\frac{1}{2}$ kg?   | 90p                     |
| 9  What percentage of the circle is<br>a shaded <input type="checkbox"/><br>b patterned <input type="checkbox"/><br>c plain? <input type="checkbox"/> | a 30%<br>b 10%<br>c 60% |
| 10 Approximate<br>a 27.9km to the nearest kilometre<br>b 3.450kg to the nearest kilogram.  | a 28km<br>b 3kg         |
| 11 20 tennis balls cost £8.20. Find the cost of five.  | £2.05                   |
| 12 The area of a rectangle is 30m <sup>2</sup> . Its width is 2.5m. Find its length.   | 12m                     |

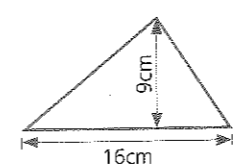
Schofield & Sims

| C   | Answer                   |
|---|--------------------------|
| 1 A milkshake which cost 43p was paid for with a £1 coin. Which three coins were given as change?   | 50p 5p 2p                |
| 2 In the number 30.632, how many times is the 3 marked y less than the 3 marked x?  | 1000                     |
| 3 Find the product of DX and V and write it using Roman numerals.   | MMDL                     |
| 4 Four children receive these amounts of money: 55p, 66p, 45p and 50p. Find the mean.   | 54p                      |
| 5 A paddling pool contained 75l of water. 10% of it was wasted. Find in litres and millilitres the quantity which remained.   | 67l 500ml                |
| 6  ABC is an isosceles triangle. Find the angles at the base.<br>$\angle ABC$<br>$\angle ACB$  | 78°<br>78°               |
| 7 {1, 2, 3, 6, 9, 18, 36}<br>Two numbers are missing from this set of factors of 36. Which are they?  | 4 and 12                 |
| 8 A dog's mass increased from 40kg to 42kg. What was the increase<br>a as a fraction<br>b as a percentage?  | a $\frac{1}{20}$<br>b 5% |
| 9 Which is the better buy, A or B, and by how much?<br>A Eight 250g packs of rice at 45p per pack<br>B 2kg of rice at £1.60 per kilogram  | B by 40p                 |
| 10  Find in centimetres the length of a diameter which is twice that of the given circle.  | 14cm                     |
| 11 A tin of red paint costing £4.50 will cover 5m <sup>2</sup> .<br>a How many tins must be bought to cover a wall 5m by 3m?<br>b What is the cost?   | a 3<br>b £13.50          |
| 12  48 centimetre cubes fit exactly into the bottom of this box. The box is 5cm deep.<br>How many cm cubes are needed to fill it? | 240                      |

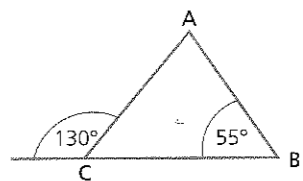
# Mental Arithmetic 5 Answers

| A                                      | Answer         |
|--|----------------|
| 1 $7 \times 10^2 =$                    | 700            |
| 2 $\frac{3}{4} + \frac{1}{8} + 2 =$    | $2\frac{7}{8}$ |
| 3 $100 - (8 \times 9) =$               | 28             |
| 4 0.085l = ml                          | 85ml           |
| 5 $5.07 \times 6 =$                    | 30.42          |
| 6 $£27 \div 100 =$ p                   | 27p            |
| 7 $650g + 0.5kg =$ kg                  | 1.15kg         |
| 8 $\frac{1}{20} = \frac{5}{100} =$ %   | 5%             |
| 9 $2h 37min + 1h 33min =$ h min        | 4h 10min       |
| 10 75% of 30kg = kg g                  | 22kg 500g      |
| 11 $3 + 5 \times 2 =$                  | 13             |
| 12 a 18p = % of £1<br>b 45cm = % of 1m | a 18%<br>b 45% |

| B   | Answer                              |
|---|-------------------------------------|
| 1 Write as a decimal 3085 thousandths.  | 3.085                               |
| 2 From the total of 83p and £1.06 take 70p.   | £1.19                               |
| 3 Find the product of 0.6 and 9.  | 5.4                                 |
| 4 Find the total number of days in the months of September, October and November.                                       | 91                                  |
| 5 When a number is divided by 9 the answer is 64 r 5. What is the number?   | 581                                 |
| 6 Three peaches cost 87p. Find the cost of two peaches.   | 58p                                 |
| 7 What fraction in its lowest terms is<br>a 800g of 1kg<br>b 150ml of $\frac{1}{2}l$ ?                                  | a $\frac{4}{5}$<br>b $\frac{3}{10}$ |
| 8 How many times greater is 5030 than 5.03?   | 1000                                |
| 9 a 20% of £8.50<br>b 60% of £8.50  | a £1.70<br>b £5.10                  |
| 10 Approximate<br>a £1.095 to the nearest penny<br>b 9.150l to the nearest $\frac{1}{2}l$ .                             | a £1.10<br>b 9l                     |
| 11 0.5kg of grapes cost £1.50. Find the cost of 700g.   | £2.10                               |
| 12  Find the area of the triangle. | 72cm <sup>2</sup>                   |

# SECTION 1 | Test 4

| C  | Answer                     |
|--|----------------------------|
| 1 The volume of a bucket is 1950cm <sup>3</sup> . How many litres of water does it hold? (1cm <sup>3</sup> = 1ml)                            | 1.95l                      |
| 2 A car travels 360km on 40l of petrol. How many kilometres per litre is this?   | 9                          |
| 3 $243 \times 15 = 3645$<br>Find a $2.43 \times 15$<br>b $24.3 \times 1.5$   | a 36.45<br>b 36.45         |
| 4 The bill at the end of a meal came to £20.40. 10% was added as a service charge. How much was added?                                       | £2.04                      |
| 5 Buses run at intervals of 18min. Find the times of the next two buses after 09:37.   | 09:55 10:13                |
| 6  In the triangle ABC, find $\angle ACB$<br>$\angle BAC$ | 50°<br>75°                 |
| 7 The mass of a 10p coin is 6.5g. What is the mass in kilograms of £20 in 10ps?  | 1.3kg                      |
| 8 A line 9cm long represents the distance flown by an aeroplane. If the line is drawn to a scale of 1mm to 50km, find the actual distance.   | 4500km                     |
| 9 Follow this number trail.<br>What number do you reach?<br>start at 3 → subtract 7 →<br>add 9 → subtract 12 →                               | -7                         |
| 10 A rectangle measures 3m long and 70cm wide. Find its area in m <sup>2</sup> .   | 2.1m <sup>2</sup>          |
| 11 Seven lemons cost £2.80.<br>a What fraction of £2.80 will three lemons cost?<br>b Find the cost of five lemons.                           | a $\frac{3}{7}$<br>b £2.00 |
| 12 Point A is at (-2, 1). Write the coordinates of its reflection in the y-axis (the vertical axis).   | (2, 1)                     |