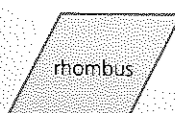
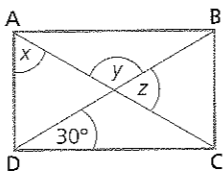


A	Answer
1 Write in digits, five hundred and two thousand one hundred and four.	502 104
2 $7.3 = 10 \times$	0.73
3 $£5 - (£3.66 + 54p) =$ p	80p
4 $\frac{1}{3}$ of 2.850l = ml	950ml
5 $9.6\text{cm} - 58\text{mm} =$ mm	38mm
6 1% of 23.5kg = g	235g
7 $1000 - (8 \times 9) =$	928
8 $350\text{g} + 725\text{g} + 875\text{g} =$ kg	1.95kg
9 $1\frac{1}{4} + \frac{7}{8} - \frac{1}{2} =$	$1\frac{5}{8}$
10 a 5% of £36.00 =	a £1.80
b $2\frac{1}{2}\%$ of £36.00 =	b 90p
11 $10 \times y = 0.35$. Find the value of y.	0.035
12 $\frac{£21.56}{7} =$	£3.08

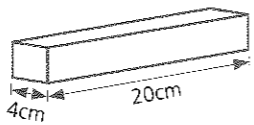
B	Answer
1 Write 35 out of 50 as	
a a fraction in its simplest form	a $\frac{7}{10}$
b a percentage.	b 70%
2 By how many degrees does the temperature rise from -3°C to 9°C ?	12°C
3 $x = 25 - 12 \times 2$ $y = (25 - 12) \times 2$ Find the value of a x b y c $y - x$.	a 1 b 26 c 25
4 Find the change from a £10 note after paying for three hot chocolates at £2.90 each.	£1.30
5 By how many minutes is $2\frac{3}{4}$ h longer than 1h 55min?	50min
6 8.25l of juice is needed to fill 10 bottles. How many millilitres of juice are in each bottle?	825ml
7 $\frac{1}{2} = 0.5$; $\frac{1}{4} = 0.25$ Write $\frac{1}{8}$ as a decimal fraction.	0.125
8 What number is 17 less than -9?	-26
9 What decimal fraction when multiplied by 9 gives 6.3 as the answer?	0.7
10 Which of these numbers are factors of 64? 2 3 4 5 6 7 8 9	2, 4, 8
11 Material costs £7.86 per metre. Find to the nearest penny the cost of 20cm.	£1.57



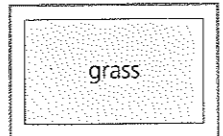
The perimeter of this rhombus is 15.6cm. Find the length of one side in millimetres.

C	Answer
1 A joint of meat had a mass of 2kg 700g. 10% of its mass was lost in cooking. Find the loss in grams.	270g
2 A shop opens from 8.30 a.m. to noon and 1.30 p.m. to 6 p.m. a How many hours is the shop open? b What fraction of the day is it open?	a 8h b $\frac{1}{3}$
3  AC and BD are the diagonals of the rectangle and $\angle BDC$ is 30° . Find the angles marked x, y and z.	$\angle x$ 50° $\angle y$ 120° $\angle z$ 60°

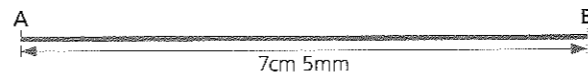
4 25% of a sum of money is £9.76. What is $12\frac{1}{2}\%$ of this amount?	£4.88
5 Place a decimal point in each of these numbers so that the value of the digit 9 is 9 thousandths. a 309 b 79 c 2009	a 0.309 b 0.079 c 2.009
6 Water from a full $\frac{1}{2}$ l jug was poured into a bowl. When the bowl was filled there were 115ml left. What was the capacity of the bowl in cm^3 ?	385 cm^3
7 An apricot costs 34p. How much is saved per apricot by buying a pack of six for £1.92?	2p
8 In one week, $\frac{1}{4}$ million people watched a football match. If 80% of the people were female, how many were male?	50 000

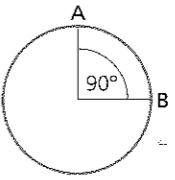
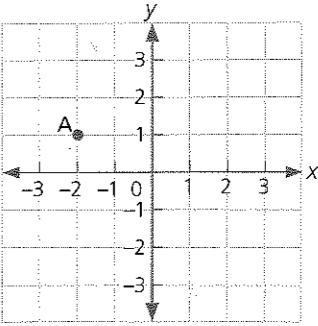


A metal bar is 20cm long with a 4cm wide square cross-section. Find its volume.

9 The approximate distance by road from London to Glasgow is 623km. How long to the nearest $\frac{1}{2}$ h will it take David to make the journey if his average speed is 80km/h?	8h
10 By how much is 10% of £25 greater than 9% of the same amount?	25p
11  A garden consists of an area of grass 9m by 6.5m surrounded by a path 50cm wide. Find a the length b the breadth c the area of the garden.	a 10m b 7.5m c 75 m^2

A	Answer
1 $2.703 = \frac{27}{10} + \frac{3}{1000}$	$\frac{27}{10} + \frac{3}{1000}$
2 $\frac{4}{5}$ of 1.5kg = g	1200g
3 $£0.76 \times 30 =$	£22.80
4 $50\,000 - 970 =$	49 030
5 $2\text{h } 37\text{min} + 7\text{h } 53\text{min} =$ h	10 $\frac{1}{2}$ h
6 $2\text{l } 700\text{ml} \times 8 =$ l ml	21l 600ml
7 $10^4 = 10 \times 10 \times 10 \times 10 =$	10 000
8 two 50ps + three 20ps + ten 5ps = £	£2.10
9 a 27p = % of £1.00 b 35cm = % of 1m	a 27% b 35%
10 $4\frac{3}{8} \times 7 =$	$30\frac{5}{8}$
11 a 50% of £3.96 = b 75% of £9.00 =	a £1.98 b £6.75
12 Write as decimal fractions. a $\frac{2}{5}$ b $\frac{3}{8}$ c 79%	a 0.4 b 0.375 c 0.79

B	Answer
1 By how many is 1.4 million greater than nine hundred thousand?	500 000
2 Subtract 37p from the total of 29p, 21p and 4p.	17p
3 What mass in kilograms is six times 4kg 300g?	25.8kg
4 By how many times is 8.3 greater than 0.083?	100
5 What fraction in simplest form is equal to a 16% b 45%?	a $\frac{4}{25}$ b $\frac{9}{20}$
6 10 sausages cost £2.90. Find the cost of a one sausage b three sausages.	a 29p b 87p
7 A line is 49mm longer than the line AB. What is the length of the line in millimetres? 	124mm
8 How many times is 2.5 contained in 100?	40
9 How many days inclusive from 19 Mar. 2006 to 5 Apr. 2006?	18
10 $\frac{108.9}{6}$ Write the answer to the nearest whole number.	18
11 Find the cost of 1.3kg at 20p per 100g.	£2.60
12 The perimeter of a rectangle is 85cm. Its length is 28cm. Find its width.	14.5cm

C	Answer												
1 If £1.00 can be exchanged for €1.38, how many euros are received for £50?	€69												
2 When a number is divided by 7 the answer is 208 $\frac{2}{7}$. Find the number.	1461												
3 A vase holds 5.6l of water. What is the volume of the vase in cm^3 ?	5600 cm^3												
4 Which of these fractions are a greater than $\frac{1}{2}$ b less than $\frac{1}{4}$? <table border="1" style="display: inline-table; margin: 5px;"><tr><td>$\frac{3}{8}$</td><td>$\frac{1}{5}$</td><td>$\frac{7}{10}$</td><td>$\frac{5}{12}$</td><td>$\frac{1}{6}$</td><td>$\frac{3}{5}$</td><td>$\frac{1}{3}$</td><td>$\frac{8}{12}$</td></tr></table>	$\frac{3}{8}$	$\frac{1}{5}$	$\frac{7}{10}$	$\frac{5}{12}$	$\frac{1}{6}$	$\frac{3}{5}$	$\frac{1}{3}$	$\frac{8}{12}$	a $\frac{7}{10}, \frac{3}{5}, \frac{8}{12}$ b $\frac{1}{5}, \frac{1}{6}$				
$\frac{3}{8}$	$\frac{1}{5}$	$\frac{7}{10}$	$\frac{5}{12}$	$\frac{1}{6}$	$\frac{3}{5}$	$\frac{1}{3}$	$\frac{8}{12}$						
5 Four plants are given 5ml plant food daily. How many days will a 0.3l bottle of plant food last?	15												
6  a What fraction of the circumference of the circle is the arc AB? b If the angle at the centre were 40°, what fraction of the circumference would be its arc?	a $\frac{1}{4}$ b $\frac{1}{9}$												
7 On 21 December the sun rises at 08:03 and sets at 15:50. How many hours and minutes of daylight are there on this day?	7h 47min												
8 Megan saved €10 every week for a year. Her dad then gave her a gift of 20% of her savings. How much did her dad give her?	€104												
9 A piece of ribbon 1m 36cm long is cut into two pieces so that one piece is three times as long as the other. Find the length of each piece.	34cm 102cm												
10 Which of the triangles A, B and C have the same area? <table border="1" style="display: inline-table; margin: 5px;"><thead><tr><th></th><th>A</th><th>B</th><th>C</th></tr></thead><tbody><tr><td>base</td><td>8cm</td><td>9cm</td><td>10cm</td></tr><tr><td>height</td><td>6cm</td><td>4cm</td><td>4.8cm</td></tr></tbody></table>		A	B	C	base	8cm	9cm	10cm	height	6cm	4cm	4.8cm	A and C
	A	B	C										
base	8cm	9cm	10cm										
height	6cm	4cm	4.8cm										
11 Point A is at (-2, 1). Write the coordinates of its reflection in the x-axis (the horizontal axis). 	(-2, -1)												
12 A point at (-3, -3) is translated five squares to the right and four squares up. What are its new coordinates?	(2, 1)												