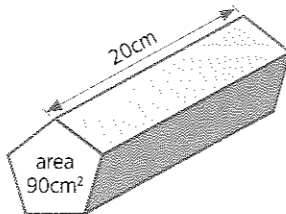
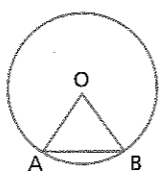
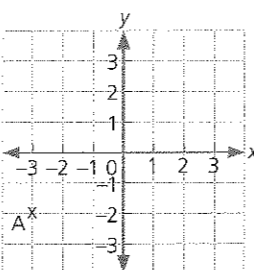
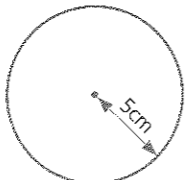
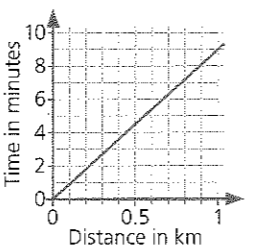


SECTION 3 | Test 3

Schofield & Sims

A	Answer
1 $32 + 29 + 58 + 70 =$	189
2 $9^2 - 1^2 =$	80
3 $£1.67 \times 9 =$	£15.03
4 $\frac{£6.88}{8} =$ p	86p
5 $(0.1 + 0.15) \times 4 =$	1
6 37 hours $\div 5 =$ h min	7h 24min
7 $\frac{2}{3} \div 5 =$	$\frac{2}{15}$
8 $\frac{5}{8}$ of 2400 =	1500
9 2km $\times 0.25 =$ m	500m
10 99% of 1kg = g	990g
11 50mm $\times 20 =$ m	1m
12 $£5 - (£1.37 + £2.45) =$	£1.18

B	Answer
1 Write the number which is halfway between 1.5 and 2.0.	1.75
2 Reduce £30 by 6%.	£28.20
3 Write $8\frac{5}{9}$ as an improper fraction.	$\frac{77}{9}$
4 What percentage of a sum of money remains after 12.5% has been spent?	87.5%
5 How many tens are there in one hundred thousand?	10 000
6 Arrange these digits to make the largest possible even number. 1 0 8 6 5	86510
7 Approximate a £16.28 to the nearest 10p b 14.75 to one decimal place.	a £16.30 b 14.8
8 Find in metres the perimeter of a regular pentagon with sides measuring 840mm each.	4.2m
9 Write $\frac{2}{3}$ as a decimal correct to two decimal places.	0.67
10 How many pence have the same value as £1000?	100 000p
11 a How many times can 20 be subtracted from 495? b What is the remainder?	a 24 b 15
12 The base of a triangle is 1m and its height is 50cm. Find its area in cm^2 .	2500 cm^2

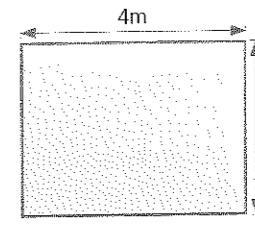
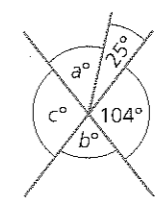
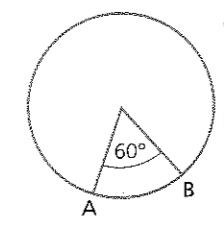
C	Answer
1  Find in cm^3 the volume of the 3D shape.	1800 cm^3
2 How many fairy cakes costing 8p each can be bought for £30?	375
3  O is the centre of the circle. $\angle OAB$ is 56° . Find a $\angle OBA$ b $\angle AOB$.	a 56° b 68°
4 What is $\frac{1}{2}\%$ of a £2000 b £500?	a £10 b £2.50
5  Point A is at $(-3, -2)$. Write the coordinates of its reflection in the x-axis.	$(-3, 2)$
6 Find to the nearest penny the cost of one kiwi when a 10 cost 73p b 10 cost £1.15.	a 7p b 12p
7 A point at $(-1, -1)$ is translated two squares to the left and one square up. What are its new coordinates?	$(-3, 0)$
8  The circumference of a circle is 3.14 times the diameter. Find the length of the circumference of this circle.	31.4cm
9 The cooking time for a chicken is given as 20min per 500g plus a further 20min. a Find the time required for a 2kg chicken. b Lunch is at 1.15 p.m. At what time must the chicken go in the oven?	a 1h 40min b 11.35 a.m.
10 A 5l bottle of washing liquid cost £1.00. If 250ml are used each day, what is the cost per day?	5p
11 A television costs £1500. How many months does it take to pay for it at £75 per month?	20mth
12  The graph shows the time taken by Hina to walk 1km. a How many minutes does it take to walk 1km? b Estimate to the nearest 100m the distance walked in 5min.	a 9min b 600m

Mental Arithmetic 5 Answers

A	Answer
1 $(37p + 28p) - (13p + 42p) =$	10p
2 $7 \times £ =$ £10.36	£1.48
3 $3.5 - =$ 0.05	3.45
4 $2\frac{1}{8} + 1\frac{1}{4} + 1\frac{3}{8} =$	$4\frac{3}{4}$
5 $3\frac{1}{2}$ years = months	42mth
6 10% of 1.5l = ml	150ml
7 $\frac{3}{5} \div 4 =$	$\frac{3}{20}$
8 $£24.00 \div 100 =$ p	24p
9 800kg $\times =$ 5.6t	7
10 $45\text{cm} - (55\text{mm} \times 6) =$ cm	12cm
11 $\frac{847}{90} =$ r	9 r 37
12 $£1.25 \times 24 =$	£30

B	Answer
1 Find the number which is 95% greater than 100.	195
2 How many sixths remain when $\frac{1}{3}$ is subtracted from $\frac{1}{2}$?	$\frac{1}{6}$
3 8.379 Write as a decimal the difference in value between the digit marked x and the digit marked y.	0.061
4 From the sum of £28.50 and £13.75 deduct £10.25.	£32.00
5 $0.6 \times 4 = 2.4$ Now find a 0.6×0.4 b 0.6×0.04 .	a 0.24 b 0.024
6 The area of a triangle is 36cm^2 . Its height is 6cm. Find the length of the base.	12cm
7 Find the total length in metres of 144 strips each 0.25m long.	36m
8 Six sandwiches cost £15. Find the cost of a two b five.	a £5.00 b £12.50
9 Find the product of 18, 5 and 4.	360
10 Write 750ml of 3l as a a fraction in its simplest form b a percentage.	a $\frac{1}{4}$ b 25%
11 Multiply 1h 25min by 5.	7h 5min
12 Increase £1.76 by 10%. Give the answer to the nearest penny.	£1.94

SECTION 3 | Test 4

C	Answer
1  How many square tiles with sides measuring 20cm each are needed to cover the floor?	300
2 When it is noon in London it is 07:00 on the same day in New York. What is the time in New York when it is 14:40 in London?	09:40
3  Find in degrees the size of $\angle a$, $\angle b$ and $\angle c$.	$\angle a$ 51° $\angle b$ 76° $\angle c$ 104°
4 A sum of money was divided between Riaz and Markus in the ratio of 3:2. Riaz received the larger share. Write the amount each received a as a fraction b as a percentage.	a Riaz $\frac{3}{5}$ Markus $\frac{2}{5}$ b Riaz 60% Markus 40%
5 Three 5ml spoonfuls of medicine are to be taken daily for two weeks. How many millilitres are required?	210ml
6 25 ice creams cost £2.40. a Find the cost of 100. b Find to the nearest penny the cost of one.	a £9.60 b 10p
7 What is the highest common factor of 16, 32 and 56?	8
8 Multiply 15p by a 5 b 50 c 500.	a 75p b £7.50 c £75.00
9  a What fraction of the circumference of the circle is the arc AB? b If the circumference measures 56.4cm, find the length of the arc AB.	a $\frac{1}{6}$ b 9.4cm
10 A map is drawn to a scale of 1mm to 1m. What length of line in millimetres represents a distance of 0.3km?	300mm
11 Dad increased Mia's savings by 10% when he gave her £2.50. How much had she already saved?	£25.00
12 By how much is it cheaper to buy a pack of four drinks at £1.64 than it is to buy four individual drinks costing 45p each?	16p