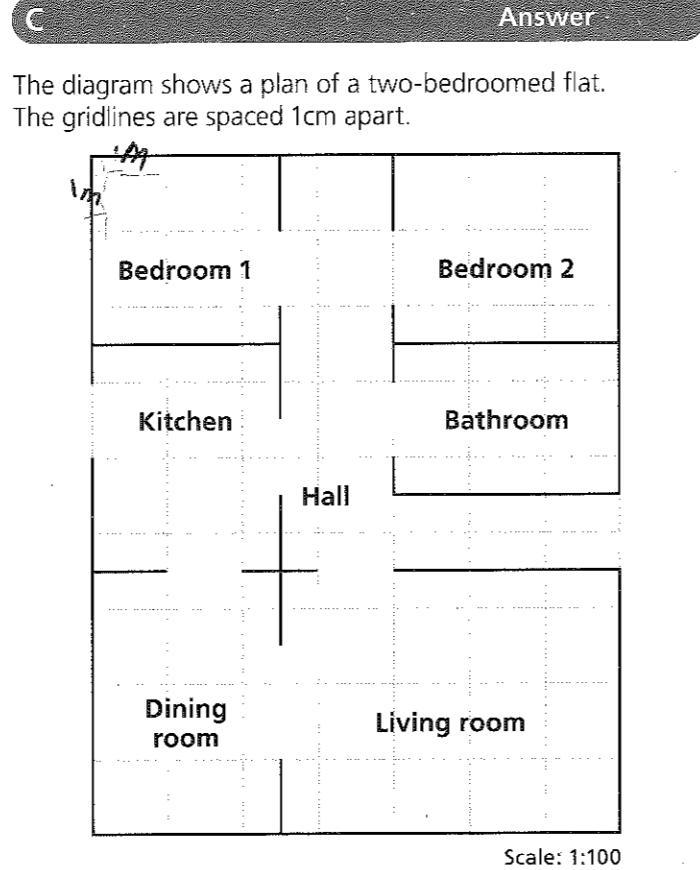


SECTION 1 | Test 6

Schofield & Sims

A	Answer
1 $1001 \div 13 =$	77
2 $(50 \times 6) + (4 \times 50) =$	500
3 $(5 \times 10^2) + (2 \times 10^2) + (0 \times 10) + (5 \times 1) =$	5205
4 Write 0.45 as a fraction in its lowest terms.	$\frac{9}{20}$
5 What number is 30% more than 1000?	1300
6 $14.4 \div 1.2 =$	12
7 $8.8 - (8.8 \div 8.8) =$	7.8
8 Approximate 0.097 to two decimal places.	0.10
9 Work out correct to two decimal places. $5.271 + 1.527$	6.80
10 $\frac{6}{15} \times \frac{5}{9} =$	$\frac{2}{9}$
11 $2t - 7 = 5$ so $t =$	6
12 $5^3 =$	125

B	Answer
1 $21p \times 5 =$	£1.05
2 Reduce €120 by 10%.	€108
3 Change $\frac{1}{2}$ l to millilitres.	500ml
4 $6000\text{kg} + 3.5\text{t} =$	9t 500kg
	= 9.5t
5 36 hours =	$1\frac{1}{2}$ days
6 What speed in kilometres per hour is	
a 6km in 3min	a 120km/h
b 72km in 45min?	b 96km/h
7 A notebook costs £1.00. An increase of 8p is added. What is the percentage increase?	8%
8 At what angle do the diagonals of a rhombus cross each other?	90°
9 Which letters of the word MUSIC remain the same after a rotation about the centre by 180°?	S I
10 Decrease £15.00 by 2%.	£14.70



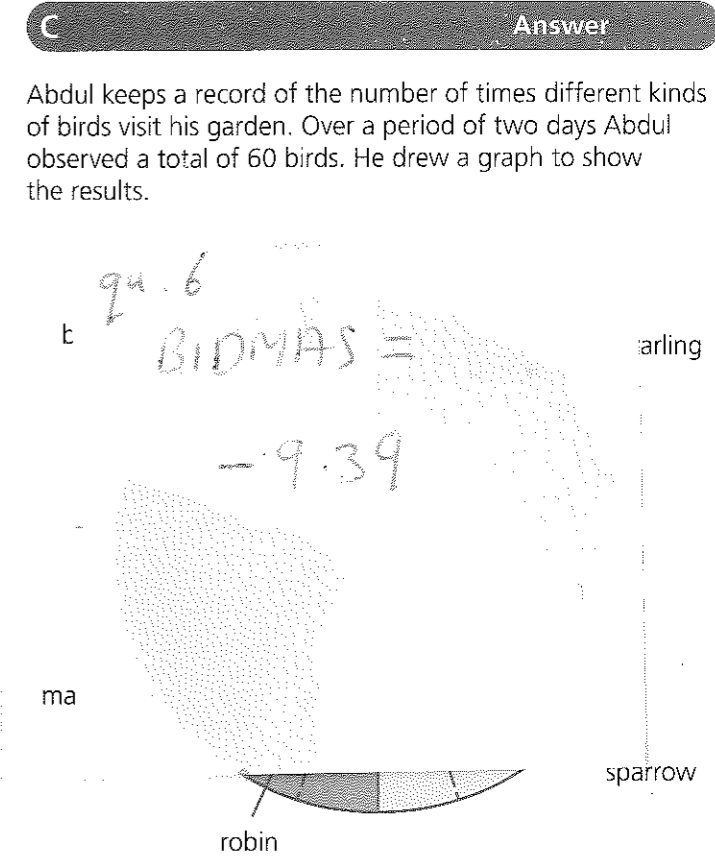
C	Answer
1 What length is represented by 1cm on the plan?	1m
2 What size is bedroom 1?	2.5m by 2.5m
3 What is the area of bedroom 1?	6.25m ²
4 What size is bedroom 2?	3m by 2.5m
5 What is the area of bedroom 2?	7.5m ²
6 What is the cost of carpeting both bedrooms at £10 per square metre?	£137.50
7 What is the cost of carpeting the living room at £20 per square metre?	£315
8 How many tiles 250mm square will be needed to cover the kitchen floor?	120
9 How much will they cost if tiles are 80p each?	£96
10 The bath takes up 22% of the floor area of the bathroom. What is the area of the bath?	1.32m ²
11 Which has the bigger area, the hall or the dining room, and by how much?	hall by 2.5m ²
12 What is the perimeter of the flat?	32m

Mental Arithmetic 6 Answers

A	Answer
1 $67 + 54 + 33 =$	154
2 $(540 \div 9) \div 9 =$	6 r. 6
3 $(3 \times 10^4) + (2 \times 10^3) =$	32000
4 Express 250% as a mixed number.	2 $\frac{1}{2}$
5 Add 20% of 35 to 18% of 200.	43
6 $1.27 - 5.03 + 4.85 =$	1.09
7 $(2.5 - 1.0) \times (2.5 + 1.0) =$	5.25
8 Approximate 7.0826 to three decimal places.	7.083
9 $100 - 20 \times 4 - 3 =$	17
10 If $l = 12$, $b = 5$, $h = 2$, find the value of lbh .	120
11 $\frac{w}{4} + \frac{1}{2} = 2$ so $w =$	6
12 List the factors of 24.	1, 2, 3, 4, 6, 8, 12, 24

B	Answer
1 $£3.06 \times 6 =$	£18.36
2 How much interest at 5% is given on £600?	£30
3 Change 3170mm to metres.	3.17m
4 $660\text{ml} \times 5 =$	3l 300ml
	= 3.3l
5 Write in 24-hour clock notation 25 minutes to 1 p.m.	12:35
6 How long will it take to walk 112 miles at a rate of 8 miles/day?	14 days
7 A tank 1.2m tall has a base of area 0.6m ² . Find its volume.	0.72m ³
8 What size is the interior angle of each corner of a regular pentagon?	108°
9 If the word DOZEN is turned upside down, which letters look the same?	O Z N
10 Find in hectares the area of a field 200m long and 100m wide.	2ha
	1 hectare (ha) = 10000m ²

SECTION 1 | Test 7



1 Which type of bird came to Abdul's garden most often?	starling
2 Which type of bird was the least frequent visitor?	blackbird
3 Which two birds visited in equal numbers?	magpie sparrow
4 What percentage of the total visits was made by robins?	10%
5 What percentage of the total visits was made by starlings?	30%
6 Five per cent of the total visits were made by which bird?	blackbird
7 Which bird made 15% of the visits in the two-day period?	blue tit
8 Which bird made 50% of the number of visits made by sparrows?	robin
9 What was the number of magpies that came during the two days?	12
10 How many more sparrows than blue tits came to Abdul's garden?	3
11 How many times could Abdul expect to see a robin if he continued his observations for a full week?	21
12 Estimate the total number of birds that Abdul might expect to see in his garden in a week.	210