Section 2 Test 3

A

		ANSWER
1	£0·07 + £7·00 + £0·70	£ 7·77
2	$(7 \times 10^3) + (5 \times 10^2) + (3 \times 10^1)$	7530
3	p × 10 = £1·60	16p
4	870 kg + 0.5 tonne = t	1.370 t
5	1.36 ÷ 8	0.17
6	(4 × 96) + (6 × 96)	960
7	360° − (145° + 55°)	160°
8	3 ℓ 250 mℓ − $\frac{3}{4}$ ℓ = ℓ	2.5 ℓ
9	3.593 + 0.407	4.0
10	80% of 400	320
11	$\frac{2}{3} + \frac{1}{6}$	$\frac{5}{6}$
12	3 × 3 = 3^2 = 9 $\quad \sqrt{9} = 3$ Find $\sqrt{36}$.	6

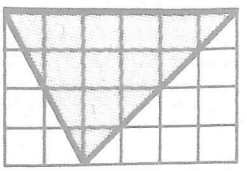
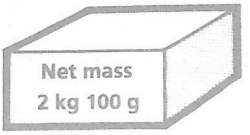
B

		ANSWER
1	What number is one more than 99 999?	100 000
2	By how many seconds is 70 s less than $1\frac{1}{4}$ minutes?	5 s
3	700 mℓ cost £0·91. Find the cost per litre.	£ 1·30
4	The length of a rectangle is 15 cm and its perimeter is 46 cm. Find (a) the width	(a) 8 cm
	(b) the area.	(b) 120 cm²
5	Write 1 mm of 2 m as a fraction.	$\frac{1}{2000}$
6	Divide the total of £1·17 and £0·28 by 5.	£ 0·29
7	4 × y = 4y Find the value of y when 4y = 14.	$3\frac{1}{2}$
8	Approximate (a) 9493 g to the nearest kg	(a) 9 kg
	(b) 305 426 to the nearest 10 000.	(b) 310 000
9	Write as a decimal the sum of 5, $\frac{3}{10}$ and $\frac{84}{100}$.	6.14
10	What percentage is 6 cm of 2 m?	3%
11	$\frac{1}{10}$ $\frac{1}{5}$ $\frac{3}{10}$ $\frac{2}{5}$ $\frac{1}{2}$ Write the next two numbers in this series.	$\frac{3}{5}$, $\frac{7}{10}$
12	Write 125 mℓ of 1 litre as (a) a fraction in its lowest terms	(a) $\frac{1}{8}$
	(b) a decimal fraction.	(b) 0.125

C

		ANSWER
1	The price of a 32p packet of sweets is increased by 25%. What is the new price?	40p
2	AIR SHOW ADMISSION £4·20 Children: half-price. Find the total cost for 2 adults and 2 children.	£ 12·60
3	The length of a garage is 5 metres. The overall length of a car is 4445 mm. By how many mm is the garage longer than the car?	555 mm
4	A woman is employed for 36 hours from Monday to Friday (inclusive). Find in h and min the average time she works each day.	7 h 12 min
5	From a gift of £10. Ahmed received £3·70. His three sisters shared the remainder equally. How much did each sister receive.	£ 2·10
6	A packet of weed-killer will treat 100 m² of lawn. How many packets are needed to treat a square lawn with 20-m sides?	4
7	Two of the angles in each of the triangles X, Y and Z are given. Find the third angle for each triangle.	

Triangle X	96°	42°	°	X 42°
Triangle Y	60°	60°	°	Y 60°
Triangle Z	90°	57°	°	Z 33°

8	A map is drawn to a scale of 1 cm to 1 km (1:100 000). Find the distance in km represented by a line 42 mm long.	4.2 km
9	F = { 16 4 1 64 2 } F = the set of factors of 64. Find the missing factors.	8 , 32
10	How many litres of water can be contained in a tank measuring (a) 10 cm long, 10 cm wide, 10 cm high	(a) 1 ℓ
	(b) 30 cm long, 20 cm wide, 30 cm high?	(b) 18 ℓ
11	 The squares of the grid have 5-mm sides. Find the area of the shaded triangle in cm².	3 cm²
12	 The mass of the contents of the box is $\frac{7}{8}$ of the total mass. Find in kg the gross mass.	2.400 kg