Section 2 Test 6

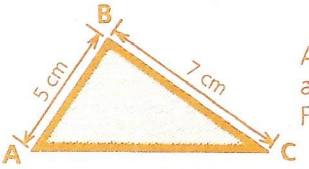
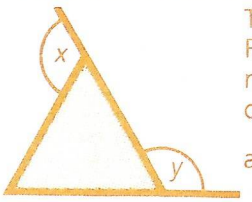
A

		ANSWER
1	470 − 383	87
2	250 g × 20 = kg	5 kg
3	765 ÷ 25 = rem.	30 rem. 15
4	$2\frac{5}{8} + \frac{3}{4}$	$3\frac{3}{8}$
5	1 ÷ 0.2	5
6	4 m − mm = 3.180 m	820 mm
7	30 × 1.6	48
8	From 7.19 a.m. to 8.15 a.m. = min	56 min
9	175 mℓ × 4 = 1 ℓ − mℓ	300 mℓ
10	$3y + 4 = 25$ Find the value of y.	7
11	(a) 8.5% of £100	(a) £ 8·50
	(b) $12\frac{1}{2}$ % of £10	(b) £ 1·25
12	£2·63 × 4	£ 10·52

B

		ANSWER
1	0.099 0.9 0.909 0.09 Add together the largest and the smallest of these numbers.	0.999
2	What percentage is (a) 9 of 18	(a) 50 %
	(b) 18 of 9?	(b) 200 %
3	Write in figures the number which is ten thousand more than a million.	1 010 000
4	£2·57 plus £1·36 minus 24p = £	£ 3·69
5	Write 20 thirds as (a) an improper fraction	(a) $\frac{20}{3}$
	(b) a mixed number.	(b) $6\frac{2}{3}$
6	Find the area of a parallelogram of base 24.4 cm and height 50 cm.	1220 cm²
7	$\frac{1}{9}$ of 70. Write the answer to the nearest whole one.	8
8	50 g cost 65p. Find the cost of $\frac{1}{4}$ kg.	£ 3·25
9	How many 650-g packets can be made from 65 kg?	100
10	Write as a decimal fraction (a) $\frac{9}{50}$	(a) 0.18
	(b) $\frac{3}{20}$	(b) 0.15
	(c) $\frac{3}{25}$.	(c) 0.12
11	Find the difference in g between 1% of 19 kg and 1% of 20 kg.	10 g
12	Increase £2·00 by 16%.	£ 2·32

C

		ANSWER
1	To rent a video recorder costs £150 per year. How much is this per month?	£ 12·50
2	 ABC is a right-angled triangle. Find its area.	17.5 cm²
3	Mr Jones paid 30% deposit on a carpet costing £150. How much more money had he to pay?	£ 105
4	A $2\frac{1}{2}$-ℓ container is $\frac{7}{10}$ full. What decimal fraction of 1 ℓ is required to fill it?	0.75 ℓ
5	A Scout group walked West for 5 km, North for 5 km and then East for 5 km. In which direction must they walk to get back to base by the shortest distance?	South
6	From this bus timetable find the time taken from	
	(a) Broton to Cant	(a) 1 h 57 min
	(b) Cant to Witton	(b) 2 h 42 min
	(c) Broton to Witton.	(c) 4 h 39 min
7	A new pane of glass is to be fitted into this square window. (a) In how many different ways will it fit without the glass being turned over?	(a) 4
	(b) How many lines of symmetry has a square?	(b) 4
8	$\left\{\frac{3}{5} \quad \frac{6}{10} \quad \frac{x}{15} \quad \frac{12}{20} \quad \frac{y}{25} \quad \frac{z}{30}\right\}$ Find the missing numerators x, y and z in this set of equivalent fractions.	x 9 y 15 z 18
9	 The triangle is equilateral. Find in degrees the measurement of ∠ x	∠ x 120°
	and ∠ y.	∠ y 120°
10	A car averaged 8 km to a litre of petrol on a 4-hour journey of 312 km. (a) How many litres were used on the journey?	(a) 39 ℓ
	(b) What was the average speed?	(b) 78 km/h
11	(π = 3.14) The radius of the wheel is 25 cm. How far, in cm, will it travel in one complete turn?	157 cm
12	'Round-off' the sum of money to the nearest £ and then find an approximate answer. (a) £19·87 × 19	(a) £ 380
	(b) £126·24 ÷ 9	(b) £ 14