W3 for 3 hours 30 minutes

W2 for 3.5(hours)

		•		
1	(a)(i)	5/9 i.s.w .or 0.55 or 0.56 or 55% or 56%	W1	
	(ii)	$\frac{2}{9}$ i.s.w. or 0.22 or 22%	W1	
	(b)	$\frac{4}{8}$ or equivalent i.s.w. or 0.5 or 50%	W2	W1 for 4 seen in numerator or W1 for a denominator of 8 Consistent wrong denominators -1 once Wrong form -1 once
			4	
2	(a) A	Any complete method	M1	
		Figs 1168 or 438 or 228 or 152 or 584 or 292 or 532 seen	W1	Using grid method accept 8 values correct
	į	£554.80	A1	Answer only W3 for £554.80 W2 for £554.8
	(b)	14 ÷ 4	Ml	
	,	3hour 30 minutes	A2	A1 for 3.5 hours seen
				Answer only

6

1	(a)(i)	$\frac{5}{9}$ i.s.w .or 0.55 or 0.56 or 55% or 56%	W1	
	(ii) $\frac{2}{9}$ i.s.w. or 0.22 or 22%	W1	
	(b)	$\frac{4}{8}$ or equivalent i.s.w. or 0.5 or 50%	W2	W1 for 4 seen in
				numerator or W1 for a denominator of 8 Consistent wrong denominators -1 once Wrong form -1 once
			4	
2	(a)	Any complete method	M1	
		Figs 1168 or 438 or 228 or 152 or 584 or 292 or 532 seen	W1	Using grid method accept 8 values correct
		£554.80	A1	Answer only W3 for £554.80 W2 for £554.8
	(b)	14 ÷ 4	M1	
		3hour 30 minutes	A2	A1 for 3.5 hours seen
				Answer only W3 for 3 hours 30 minutes W2 for 3.5(hours)
			6	

W1

W1

W2

4

W1 for 6n or equivalent seen

5

(a) Subtract 9, subtract 11

(ii) 6n+1 or equivalent

(b)(i) 61

- 6 (a) (0).08

 - (b) 500
 - (c) $\frac{11}{4} \times \frac{8}{3}$ or equivalent
 - $7\frac{1}{3}$

- W1
- W2
- W1 for 125 seen
- M1
- A1 for $\frac{88}{12}$ or A2
 - equivalent seen A1
 - Answer only
 - W3 for $7\frac{1}{3}$ or
 - W2 for $\frac{88}{12}$ or
 - equivalent

6

- 7 (a) 10x - 5 seen
 - 10x 6x = 1 + 5
 - 1.5 or $1\frac{1}{2}$ or $\frac{3}{2}$ i.s.w.
 - (b) Multiplication of equation (1) by 2 or
 - Multiplication of equation (1) by 3 and Multiplication of equation (2) by 4
 - Subtracting equations

 - x = 3
 - y = -4
 - Substitution method
 - y = 8 4x
 - 3x + 2(8 4x) = 1

- W1
- M1
 - f.t. their 10x 5
- A1
 - Answer only W3
- M1
- At least 2 terms correct
- Dep on first M1 M1
 - At least 2 terms correct
- A1
- Dep on M2
- Answer only W1
- M1
- M1
- 6

8 (a)(i) 25

W1

- (Base angle of) isosceles triangle (equal)
- (b) 65

W1

W1

Angles at the centre is (twice angle at circumference)

W1

4

9 (a) y+2=4x or -4x=-2-y

M1

or $\frac{y}{4} = x - \frac{2}{4}$

Final answer (x =) $\frac{y+2}{4}$ or (x =) $\frac{y}{4} + \frac{2}{4}$

A1

Answer only W2

- $(x =)[y + 2] \div 4$ or $(x =)\frac{-2 y}{-4}$
- (b) y = 2x + 3 or equivalent

W3

W2 for y = 2x + c or

M1 for Gradient $= \frac{11-3}{4-0} (=2)$

or 8 and 4 seen for height and width

and W1 for y = mx + 3

W2 for 2x + 3 or equivalent

5

10 (a) Final answer 16x + 1

W2

W1 for each or

W1 for

12x + 3 + 4x - 2 seen

(b) (x+6)(x+4) i.s.w.

W2

W1 for $(x \pm 6)(x \pm 4)$ i.s.w.

4

Section B

11	(a) SG drawn 7 cm long and GW drawn 5 cm long SW drawn 8 cm long	W1 W1 W1	Allow ± 0.2 cm Allow ± 0.2 cm Allow ± 0.2 cm Incomplete triangle max W2 Wrong scale -1 once
	(b) 96 to 100°	W1	f.t. from their diagram (±2°)
12	(a) 240×1.565	M1	Implied by digits 3756
	\$375(.60) or 376	A1	Answer only W2
	(b) 28.17 ÷ 1.565	M1	
	£18	A1	
	£4.49 to 4.5(0)	A1	Answer only W3 After W0 allow SC1 for 7.04 to 7.05 seen
		5	
13	$\pi \times 13^{\circ}$	M1	
	530 to 531	A1	Answer only W2
	$36 \times 75 - 2 \times \text{their} (530 \text{ to } 531)$	M1	Independent
	1630 to 1640	A1	Answer only W4
	cm ²	W1 5	

14 (a)(i)
$$4x = 17 + 5$$

5.5 or
$$5\frac{1}{2}$$
 or $\frac{11}{2}$ i.s.w.

M1 Allow 22 seen

W1

Accept embedded answer

15 (a)
$$3x + 4x + 5x$$

A1

M1

(b)
$$\frac{1}{2} \times 4x \times 3x$$

$$6x^2$$

(b)
$$0.008$$
 or 8×10^{-3}

17	5, 15, 25, 35, 45, 55 seen or used	W1	Accept 4 correct
1.7			-
	$\sum fx (=750)$	M1	x in range $0 \le t \le 10$ etc
	÷ 60	M1	Dep on previous M1
	12.5	Al	Answer only W4
			SC2 for answer 7.5 or 17.5
		4	
18	(a) $475 \times \frac{100+6}{100} (\times 12)$	M2	M1 for
	100		$475 \times \frac{6}{100} (\times 12) \ (=28.5)$
	6042	A2	A1 for 503.5(0) or 28.5(0) or 342 seen Answer only W4 for 6042 or W3 for 503.5(0) or W2 for 28.5(0) or 342
			After W0 allow SC2 for answer 9120
	(b) $\frac{825}{(4+5+6)}(\times 4)$	M1	Implied by 55
	220, 275, 330	A2	A1 for one correct Ignore order of answers
			Answer only W3
	(c) $\frac{324000}{100+35}$ (×100)	M2	W1 for figs 135 seen
	£240000	A1	Answer only W3
		10	

19 (a)
$$\tan = \frac{266}{651}$$

(b)
$$\sin 35 \times 635$$

M2 M1 for tan =
$$\frac{651}{266}$$

M2 M1 for
$$\sin = \frac{DC}{635}$$

Answer only W4 for 360 or 364 W3 for 364.....

After A0 allow W1 for an answer correct to 2 or 3 significant figures after trigonometry.

Evidence of scale drawing implies no marks for his question

Grads and Rads penalty of 1 in each part.

7

Total 50 marks