M1

M1

A1

B1ft

M1.

9 + 3x + x - 5 + 2xor 6x + 4or 3x + x - 5 + 2xor 6x - 5oe

Their $(6x + 4) = 100$	
or their $6x - 5 = 91$	
or 6 <i>x</i> = 96	
oe	
9	9
$\frac{1}{1}$ their (6x + 4)	100

x = 16

11 100

ft their 16

[4]

M2.

(a)
$$4x-5=15$$

 $4 \times 5-5=15$
or $4 \times 5=20$
M1
 $4x = 15+5$
or $4x = 20$
oe
M1dep

	Strand (ii) SC2 Answer 5 without algebra shown	Q1
(b)	5y - 7 = y + 3	M1
	5y - y = 3 + 7 or $4y = 10$	
	oe	M1
	(<i>y</i> =) 2.5	A1
	their $2.5 + 3$ or $5 \times$ their $2.5 - 7$ or 5.5 or 5.5×15 oe ft their y if clearly shown 82.5	M1 A1
	Additional Guidance $4 \times 2.5 = 10, 2.5 + 3$ embedded value for y	M1M1A1M1A0

2x + 2x - 10 + x + 25 + 2x + 30or ax + 45or 7x + bAllow one error in **their** 7 terms oe 25 + 30 - 10 or 45

M3.

M1

[8]

$$2x + 2x - 10 + x + 25 + 2x + 30 = 360$$

or $7x + 45$
or their $ax + 45 = 360$
or their $7x + b = 360$
 oe
 $360 - their 45 or 315$
 $7x + 45 = 360$

45

A1

M3A1

M1dep

M1dep

Additional Guidance

x = 45 with no working M3A1

$$45 + 315 = 360, \ \frac{315}{7} = 45$$
 M3A1

$$2x = 90, x = 45$$
 (no incorrect working seen)

$$360 - 45 = 215, \ \frac{215}{7} = 30.714$$
 M3A0

$$45 + 215 = 360, \ \frac{215}{7} = 30.714$$

[4]

M4.

(a) *x* + 10

Q1

(b)	$3x + 2 \times \text{their} (x + 10) = 9$	95	
	oe 3x + 2x + 2	20 = 95	
	5x + 20 = 95		
	ft their $x + 10$		
		Biit	
(c)	Their $(5x + 20) = 95$		
(0)	Simplification	of their equation (from at least two terms in x)	
	May be in par	rt (b)	
	(95 – their 20) ÷ their 5		
	Their 5 canno	ot be 1	
		MI	
	15	Δ1	
			[4]
(a)	4x seen		
		M1	
	4 <i>x</i> + 20		
	SC1 for <i>x</i> 4 + 2	20	
		A1	
4.			
(b)	4x + 20 = 2.5x + 35	M1	
	1.5x = 15	vo torme. Allow one orror	
		M1 Dep	
	r – 10		
	$\lambda = 10$	A1	

Alternative

M5.

One attempt at total cost for any number of slabs for both companies

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M1

An attempt for between 8 and 12 slabs
eg, following 6 above
$$8 \times 4 + 20 = 52$$
 and $8 \times 2.5 + 35 = 55$
M1

10

SC1 for
$$5 \times 4 + 20 = 40$$

and $2.5 \times 2 + 35 = 40$

[5]

A1