M1.

(a) $x + 10$

QWC Strand (i) − Correct notation

Q1

(b) $3x + 2 \times$ their $(x + 10) = 95$

oe $3x + 2x + 20 = 95$

$5x + 20 = 95$

ft their $x + 10$

B1ft

(c) Their $(5x + 20) = 95$

Simplification of their equation (from at least two terms in x)

May be in part (b)

(95 − their 20) ÷ their 5

Their 5 cannot be 1

M1

15

A1

[4]

M2.

(a) $4x$ seen

M1

$4x + 20$

SC1 for $x4 + 20$

A1

(b) $4x + 20 = 2.5x + 35$

M1

$1.5x = 15$

Combining like terms. Allow one error.

M1 Dep

$x = 10$

A1

Alternative

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

eg, 6 × 4 + 20 = 44 ***and*** *6 × 2.5 + 35 = 50*

M1

An attempt for between 8 and 12 slabs

eg, following 6 above

8 × 4 + 20 = 52 and 8 × 2.5 + 35 = 55

M1

10

SC1 for 5 × 4 + 20 = 40

and *2.5 × 2 + 35 = 40*

A1

[5]