

2007 Credit past paper.

Q11(a) $x + y = 300$.

(b) $4x + 6y = 1380$.

(c) $x + y = 300$ (1)
 $4x + 6y = 1380$ (2)

$4x + 4y = 1200$ (3)

$2y = 180$

$y = 90$

(1) $\times 4$.

$\textcircled{2-3} \rightarrow \begin{array}{l} 2-3 \\ (2)+(3) = 8x \\ \checkmark (2)-(3) = 0 \end{array}$

Sub y into (1)

$x + 90 = 300$

$x = \underline{\underline{210}}$

$\rightarrow 210$ standard $\rightarrow 90$ deluxe.

2006 Paper.

Q7(a) $V = a \times h$
 $= 28 \times 18$

$$\begin{array}{r} 28 \\ \times 18 \\ \hline 280 \\ + 224 \\ \hline 504 \end{array}$$

$V = \overset{3}{504} \text{ cm}^3$

(b) V of cable 504 cm^3

$$V = A \times h$$
$$504 = \pi r^2 \times h$$
$$504 = 1.53938 \times h$$

$$A = \pi \times (0.7)^2$$
$$= 1.53938 \text{ cm}^2$$

$$h = \frac{504}{1.53938}$$

$$h = \underline{\underline{327.4 \text{ cm.}}}$$