

### 'Allotment Areas'

$$10(3x + 1) + x(8 - 3x) = 65$$

Solving the quadratic gives  $x = 11$  or  $x = \frac{5}{3}$ ,  $x \neq 11$

$$\text{Thus } x = \frac{5}{3}m, y = 3m$$

$$\text{Depth} = 3 \text{ m, Width} = \frac{5}{3} \text{ m}$$

(6)