

$$\begin{aligned}
 15 \text{ (i)} \quad & 35y^2 + 13y - 12 \\
 & = 35y^2 + 28y - 15y - 12 \\
 & = 7y(5y+4) - 3(5y+4) \\
 & = (5y+4)(7y-3)
 \end{aligned}$$

Possible values of length are $5y+4$, $7y-3$
 Possible values of breadth are $7y-3$, $5y+4$

$$\begin{aligned}
 16 \text{ (i)} \quad & 3x^2 - 12x \\
 & = 3x(x-4)
 \end{aligned}$$

one possible ans (of length, breadth and height) are $3, x, x-4$
 another possible ans $x-4, x, 3$

$$\begin{aligned}
 16 \text{ (ii)} \quad & 12ky^2 + 8ky - 20k \\
 & = 4k(3y^2 + 2y - 5) \\
 & = 4k(3y^2 + 5y - 3y - 5) \\
 & = 4k[y(3y+5) - 1(3y+5)] \\
 & = 4k(3y+5)(y-1)
 \end{aligned}$$

one possible ans (of length, breadth, height) are $4k, 3y+5, y-1$