| Solving Quadratic Equations Problems |  |  |
| :---: | :---: | :---: |
| (a) | (b) | (c) |
| (i) Show that $x^{2}-2 x-24=0$ <br> (ii) Hence find the length and width of the rectangle. | (i) Show that $x^{2}+4 x-45=0$ <br> (ii) Hence find the width and height of the triangle. | (i) Show that $x^{2}+5 x-36=0$ <br> (ii) Hence find the dimensions of the cuboid. |
| (d) | (e) | (f) |
| Find the value of $x$ and hence the dimensions of the trapezium. Show clear algebraic working. | Find the value of $x$ and hence the dimensions of the compound shape. Show clear algebraic working. | Find the value of $x$ and hence the dimensions of the cuboid. Show clear algebraic working. |

