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| **Solving Quadratic Equations Problems** |
| **(a)** | **(b)** | **(c)** |
| (i) Show that $x^{2}-2x-24=0$(ii) Hence find the length and width of the rectangle. | (i) Show that $x^{2}+4x-45=0$(ii) Hence find the width and height of the triangle. | (i) Show that $x^{2}+5x-36=0$(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. |