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| **Solving Quadratic Inequalities in Context** | |
| **(a)** | **(b)** |
| A rectangle has sides of length and width , as shown. If the area of the rectangle is greater than :  (i) Show that  (ii) Find the range of possible values of . | A cuboid has dimensions of , and , as shown. If the volume of the cuboid is greater than:  (i) Show that  (ii) Find the range of possible values of . |
| **(c)** | **(d)** |
| Given that the area of the rectangle is greater than the area of the triangle, find the range of possible values of . | A rectangular lawn has a length of and a width of , as shown. Given that the area of the lawn is less than , find the range of possible values of . |