A craft artist is producing items and selling them in a local market.

The selling price,  $\pounds P$ , of an item is inversely proportional to the number of items produced, n

When 
$$n = 10$$
,  $P = 24$ 

Show that 
$$P = \frac{240}{n}$$

9 (a)

9 (b)

[1 mark]

The production cost,  $\pounds C$ , of an item is inversely proportional to the square of the number of items produced, n

When n = 10, C = 60

Find the set of values of n for which P > C

[4 marks]

9 (c) Explain the significance to the craft artist of the range of values found in part (b).

[1 mark]