Joseph makes fizzy orange by mixing orange juice and lemonade in the ratio:

orange juice : lemonade = 3 : 5

He buys orange juice in 2 litre containers, each costing £1.20

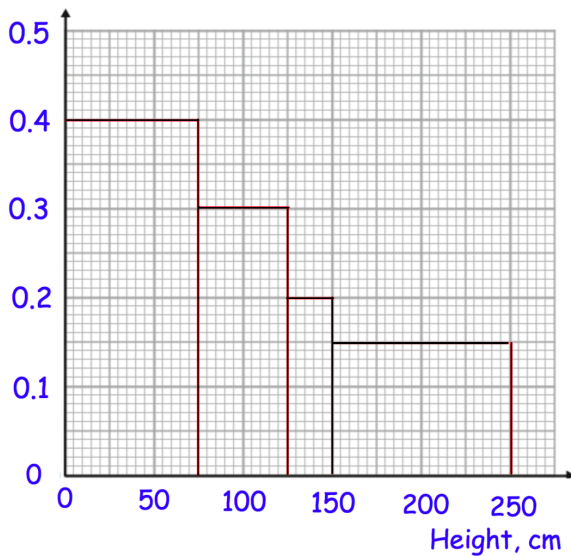He buys lemonade in 3 litre containers, each costing £1.50

He wants to sell the fizzy orange in 250ml bottles and to make a profit of 60% each bottle sold.

How much should he sell each bottle for?
Give your answer to the nearest penny.

The histogram shows information about the heights of some sunflowers.

Frequency Density

Height, cm

Work out an estimate of the median height.

Write down the coordinates of the minimum point on the curve

$$y = x^2 + 10x + 7$$