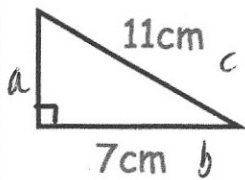




Given that $4320 = 2^5 \times 3^3 \times 5$
 $\quad\quad\quad 2^6 \quad 3^3 \quad 5^3$
 find the lowest value by which 4320 needs to be multiplied to get a cube number.

$$2 \times 5 \times 5 = 50$$

The triangle below is enlarged by scale factor 3.



$$a^2 + b^2 = c^2$$

$$a^2 + 7^2 = 11^2$$

$$a^2 = 72$$

$$a = 8.48\dots$$

Find the area of the enlarged triangle.

$$\frac{1}{2}(7 \times 8.48\dots) \times 9 = 267.29 \text{ cm}^2$$

Hollie invests some money at 5% compound interest per annum.

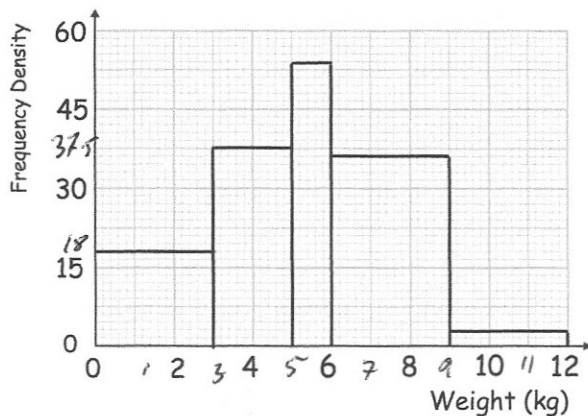
How many years will it take until she has at least doubled her initial amount?

$$100 \times 1.05^y$$

14 years \rightarrow £197.99
 15 years \rightarrow £207.89

15 years

The histogram shows information about the weights of some puppies.



Use the histogram to complete the frequency table

Weight, kg	Frequency
$0 < w \leq 3$	54
$3 < w \leq 5$	75
$5 < w \leq 6$	54
$6 < w \leq 9$	108
$9 < w \leq 12$	9