



Find the gradient of the line with equation $2x - 4y = 7$

$$\frac{1}{2}$$

$$\begin{aligned} 2x - 7 &= 4y \\ 0.5x - 1.75 &= y \\ y &= 0.5x - 1.75 \end{aligned}$$

The length of a side of a regular pentagon is 1200mm, correct to 2 significant figures. $UB = 1250$

Work out the upper bound for the perimeter of the pentagon.

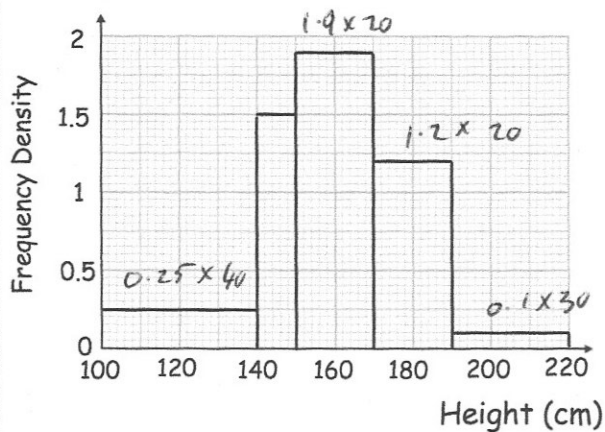
$$\begin{aligned} 1250 \times 5 \\ 6250 \text{ mm} \end{aligned}$$

An ordinary dice is rolled four times.

What is the probability of obtaining a 6 four times?

$$\begin{aligned} \frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} \\ = \frac{1}{1296} \end{aligned}$$

The histogram shows the heights of some people.



Use the histogram to complete the frequency table.

Height (cm)	Frequency
$100 < h \leq 140$	10
$140 < h \leq 150$	15
$150 < h \leq 170$	38
$170 < h \leq 190$	24
$190 < h \leq 220$	3