



A recipe for a drink says

$$3:8$$

"mix 3 parts orange juice with 8 parts lemonade." $1\text{ ml} = 2.6\text{ ml}$

Victoria has 100ml of orange juice and 300ml of lemonade.

$$100\text{ ml} = 266.6$$

What is the maximum amount of the drink that she can make?

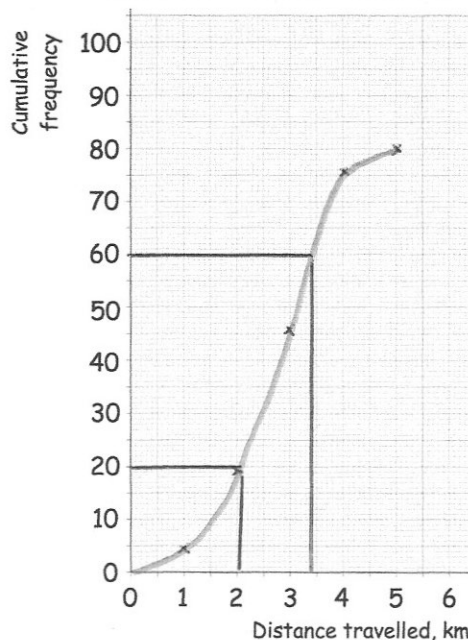
$$366.67\text{ ml}$$

The table shows the distances the visitors to a library had travelled.

Distance, km	Frequency
$0 < d \leq 1$	4
$1 < d \leq 2$	15
$2 < d \leq 3$	27
$3 < d \leq 4$	30
$4 < d \leq 5$	4

cf
4
19
46
76
80
*

Draw a cumulative frequency graph



Use your graph to estimate the interquartile range

$$3.4 - 2.05$$

$$1.35\text{ km}$$

Two of the visitors are picked at random.

Find the probability that they both travelled more than 4km.

$$\frac{4}{80} \times \frac{3}{79} = \frac{3}{1580}$$

Make a the subject of the formula

$$10(a - 3c) = 4(w + a)$$

$$10a - 30c = 4w + 4a$$

$$6a = 4w + 30c$$

$$a = \frac{2}{3}w + 5c$$