

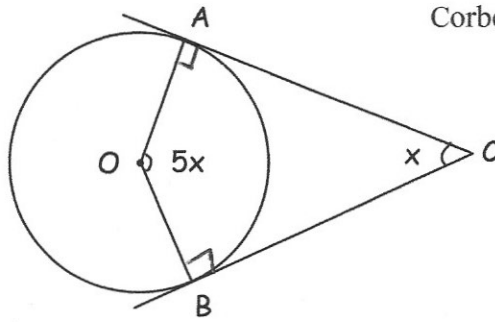


Find x

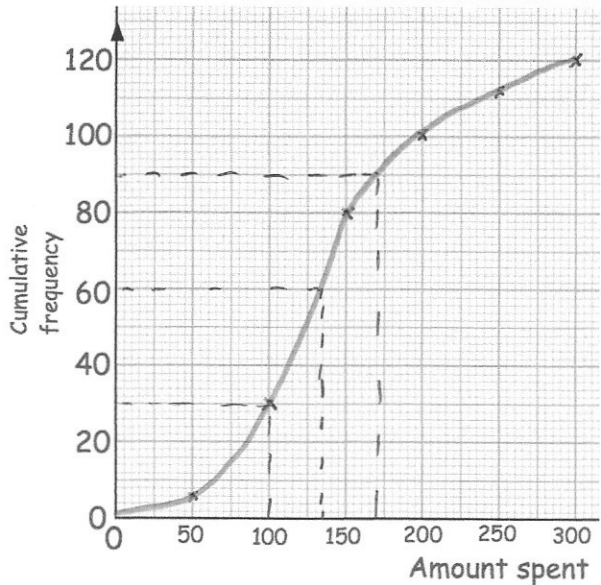
$$6x + 180 = 360$$

$$6x = 360$$

$$x = 30^\circ$$



Amount spent, £ x	Cumulative frequency
$0 < x \leq 50$	6
$0 < x \leq 100$	30
$0 < x \leq 150$	80
$0 < x \leq 200$	100
$0 < x \leq 250$	112
$0 < x \leq 300$	120



Draw a cumulative frequency diagram

Use your diagram to estimate the median

$$£135$$

Use your diagram to estimate the interquartile range.

$$170 - 100$$

$$£70$$

Make m the subject of

$$dm = y - em$$

$$dm + em = y$$

$$m(d+e) = y$$

$$m = \frac{y}{d+e}$$