



A car travelled for 100 minutes, to the nearest 5 minutes.

It travelled for a total distance of 100 km, to the nearest 10km

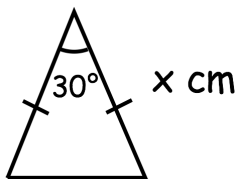
Work out the greatest possible average speed, in m/s

Height (h cm)	Frequency
$110 < h \leq 120$	8
$120 < h \leq 130$	16
$130 < h \leq 140$	25
$140 < h \leq 150$	32
$150 < h \leq 160$	19

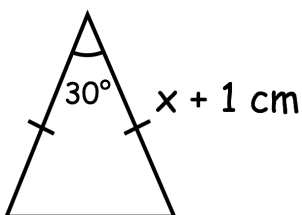
Calculate an estimate of the upper quartile

Solve $2x^2 - x - 6 < 0$

An isosceles triangle is drawn



The lengths of the two equal sides are increased by 1cm



The area of the larger triangle is twice the area of the smaller triangle.

Find x .