



Make m the subject

$$2 = \frac{m + k}{m - t}$$

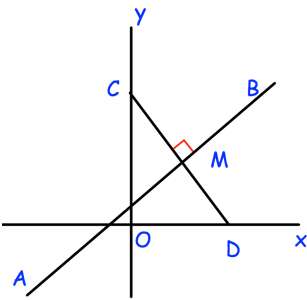
The table below shows information about the ages of the employees for a company.

Age, x years	Frequency
$20 \leq x < 30$	14
$30 \leq x < 35$	20
$35 \leq x < 40$	28
$40 \leq x < 50$	x
$50 \leq x < 80$	10

Miss Rashid calculated the estimated mean from the table as 38.25 years.

Find x

Using your value of x , calculate an estimate of the interquartile range of the ages.



Shown are the straight lines AB and CD .
 M is the midpoint of CD
 AB is perpendicular to CD and passes through the point M
 C is the point $(0, 12)$ and D is the point $(6, 0)$

Find the equation of AB

B is the point $(11, 10)$
 $AM:MB = 5:2$

Find the coordinates of the point A