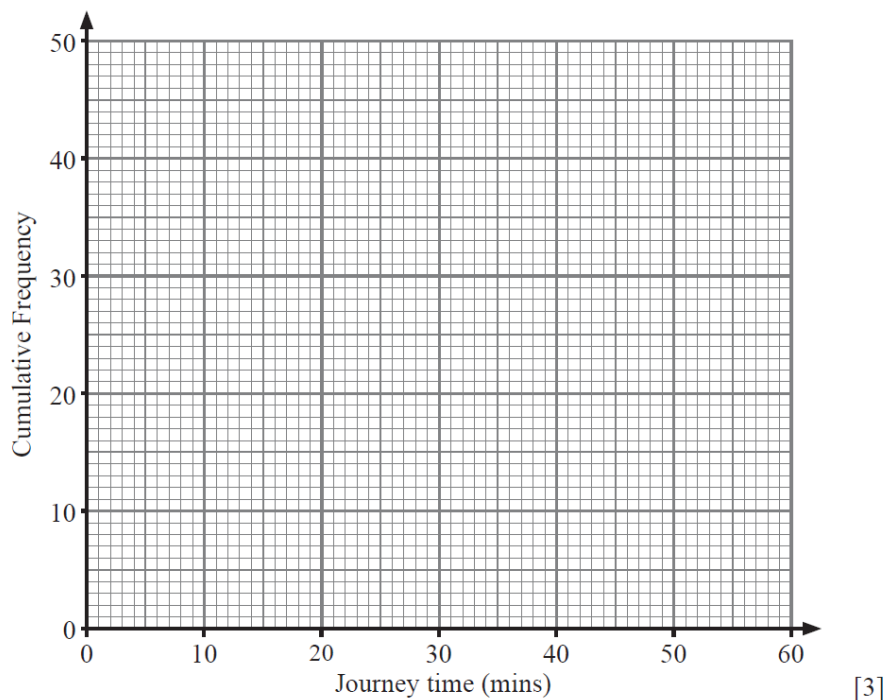


M4 = 34 days to go!

10 The cumulative frequency table gives data about the length of time it takes for 50 workers to travel to work one morning.

Journey time (t minutes)	Cumulative Frequency
$t \leq 20$	7
$t \leq 25$	22
$t \leq 30$	36
$t \leq 35$	45
$t \leq 45$	49
$t \leq 60$	50

(a) On the graph paper below, draw a cumulative frequency graph to illustrate the data.



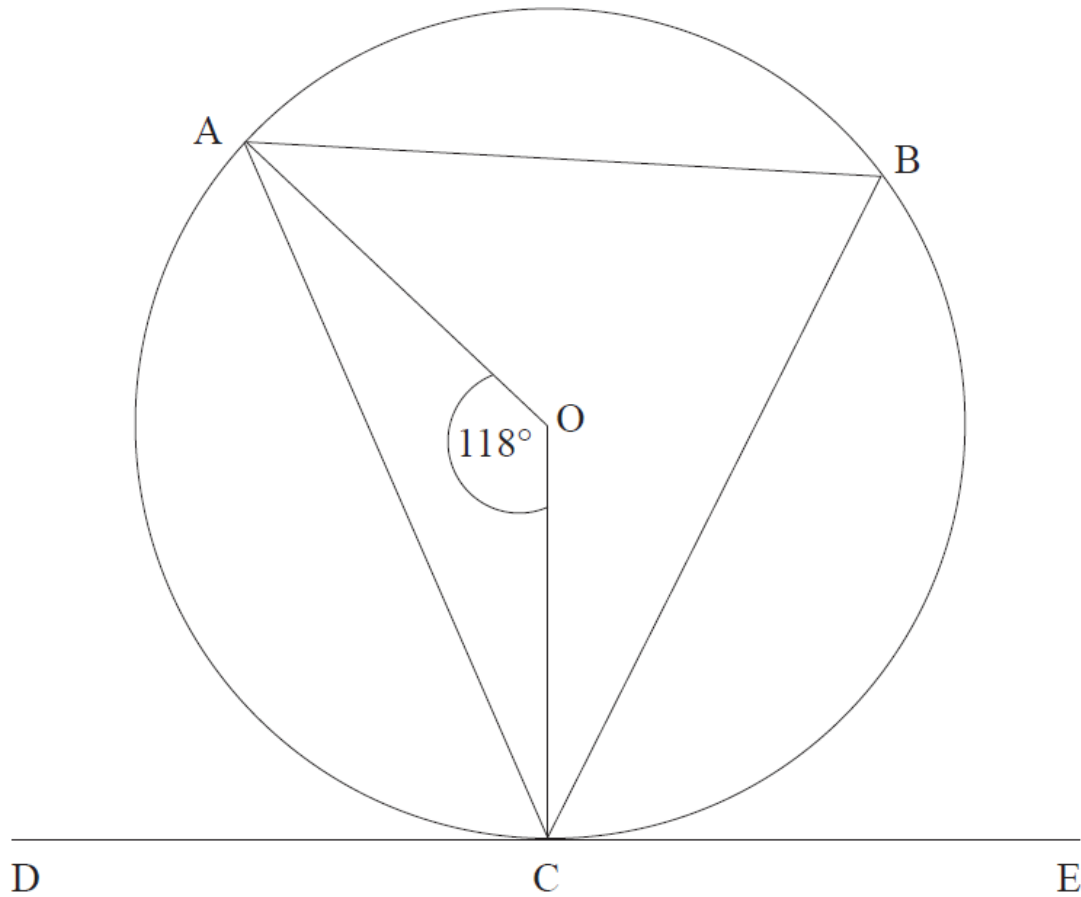
(b) Use the graph to estimate the percentage of workers whose journey time was longer than 40 minutes.

Answer _____ % [2]

O is the centre of the circle through A, B and C.

DCE is a tangent to the circle at C.

Angle AOC = 118°



- (i) Find the size of angle ACD.
Give a reason for each step.

Answer Angle ACD = _____ $^\circ$

Reasons: