Cumulative frequency graphs *lesson handout*

Part 1 · We do

The heights of 28 plants. Complete the table. How many are 160 cm or less?

Height, h (cm)	Frequency	Cumulative frequency
$140 < h \leq 150$	3	**3**
$150 < h \leq 160$	8	
$160 < h \leq 170$	11	
$170 < h \leq 180$	6	

Part 1 · You do

The masses of 40 parcels. Complete the table.
How many are 60 kg or less?

Mass, m (kg)	Frequency	Cumulative frequency
$0 < m \leq 20$	7	
$20 < m \leq 40$	10	
$40 < m \leq 60$	14	
$60 < m \leq 80$	9	

Part 1 · You do

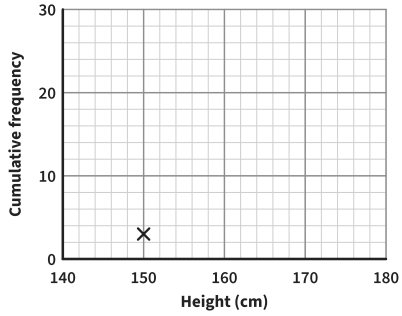
The distances 40 people cycle. Complete the table.
How many cycle 15 km or less?

Distance, d (km)	Frequency	Cumulative frequency
$0 < d \leq 5$	2	
$5 < d \leq 10$	6	
$10 < d \leq 15$	15	
$15 < d \leq 20$	13	
$20 < d \leq 25$	4	

Part 2 · We do

Draw the cumulative frequency graph.

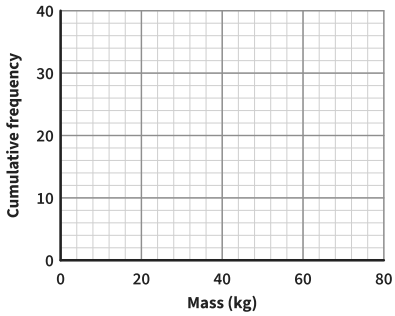
Height, h (cm)	Cumulative frequency	Point
$140 < h \leq 150$	3	**(150, 3)**
$150 < h \leq 160$	11	
$160 < h \leq 170$	22	
$170 < h \leq 180$	28	



Part 2 · You do

Draw the cumulative frequency graph.

Mass, m (kg)	Cumulative frequency	Point
$0 < m \leq 20$	7	
$20 < m \leq 40$	17	
$40 < m \leq 60$	31	
$60 < m \leq 80$	40	



Part 2 · You do

Draw the cumulative frequency graph.

Speed, s (mph)	Cumulative frequency	Point
$20 < s \leq 25$	3	
$25 < s \leq 30$	11	
$30 < s \leq 35$	25	
$35 < s \leq 40$	35	
$40 < s \leq 45$	40	

