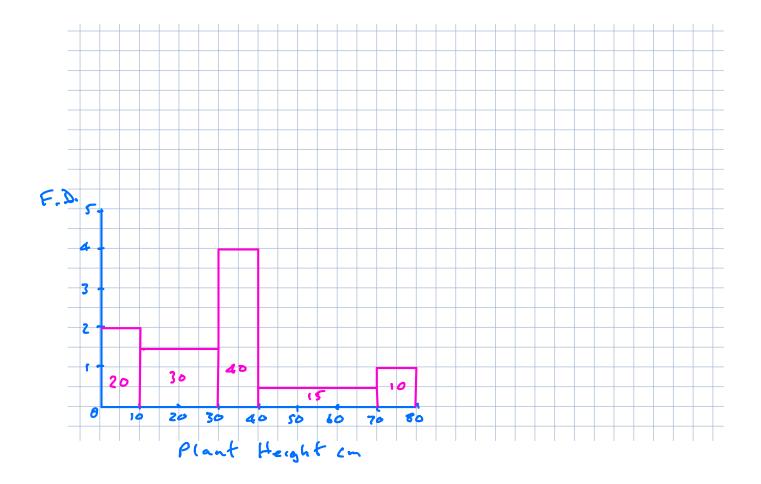
Histograms

Frequency is represented by area on a histogram F.D. frequency density is always the vertical axis

Example

Plant Height	Frequency
0< h < 10	20
10 < h < 30	30
30Ch 540	40
4064 470	15
704h 480	10

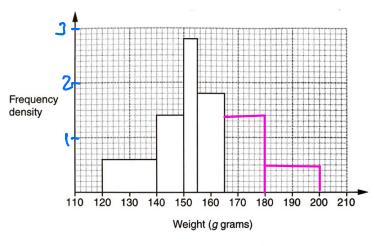
$$F D = FreE = Windth$$
 $20 \div 10 = 2$
 $30 \div 20 = 1.5$
 $40 \div 10 = 4$
 $15 \div 30 = 0.5$



What is probability a random plant is more than 35 cm tall?

Total Plants = 20 + 30 + 40 + 15 + 10 = 115 Tuller than 35cm 20 + 15 + 10 = 45 Prob (Taller than 35cm) = $\frac{45}{115}$ 16

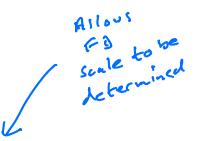
16 William is drawing a histogram to show information about the weights of some pears.



(a) Complete the frequency table.

Area = lox 1.8

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Weight (g grams)	Frequency			
120 < <i>g</i> ≤ 140	12			
140 < <i>g</i> ≤ 150	14			
150 < <i>g</i> ≤ 155	14			
155 < <i>g</i> ≤ 165	18			
165 < <i>g</i> ≤ 180	21			
180 < <i>g</i> ≤ 200	10			

F) = Freq - Weight Willett 12 - 20 = 0.6

(b) Complete the histogram, including a scale.

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