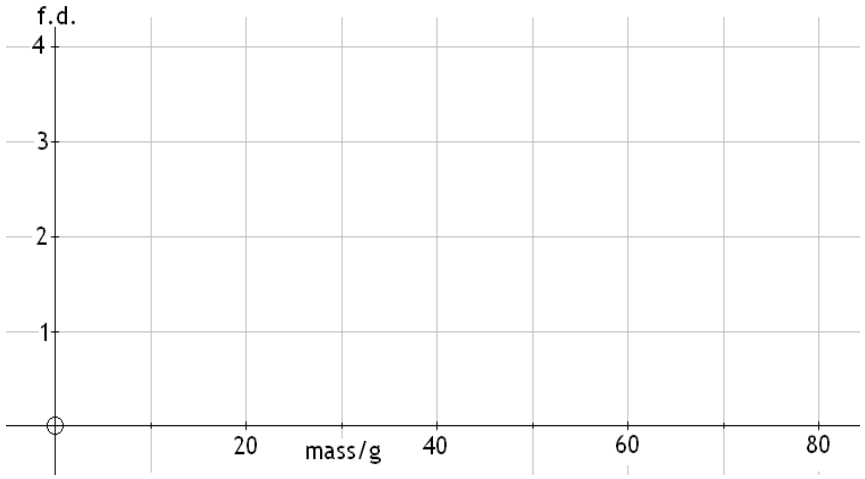
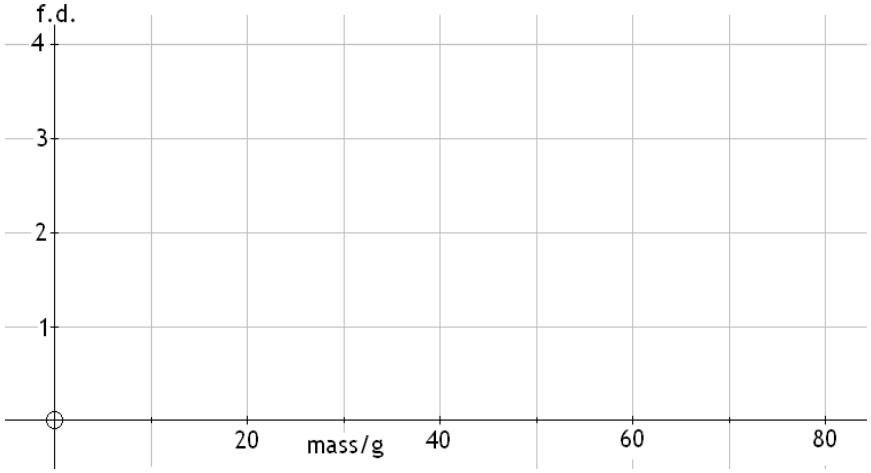


Class Interval	Frequency	Cumulative frequency	Class width	Frequency Density	midpt	f x midpt
0-40						
	40				50	
				4		

Mean = 45 Median =

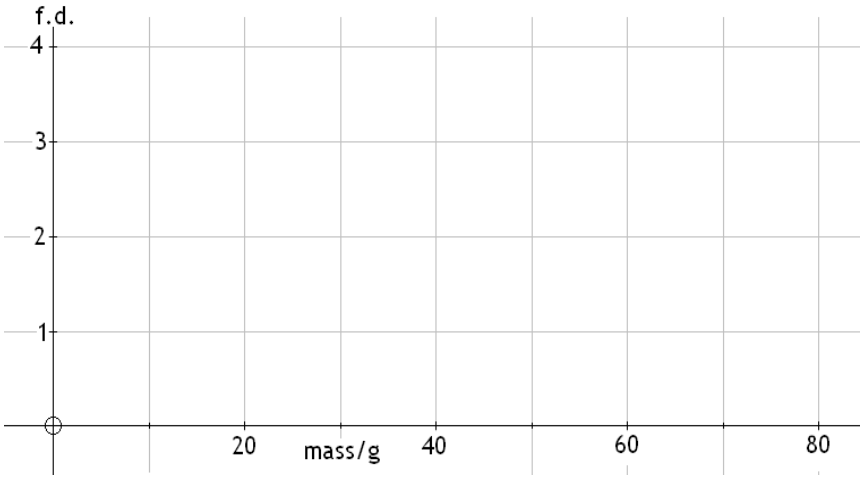
Modal Class = Skewness = -ve



Class Interval	Frequency	Cumulative frequency	Class width	Frequency Density	midpt	f x midpt
		30		1		
	60		20			
50-80						

Mean = Median = 40

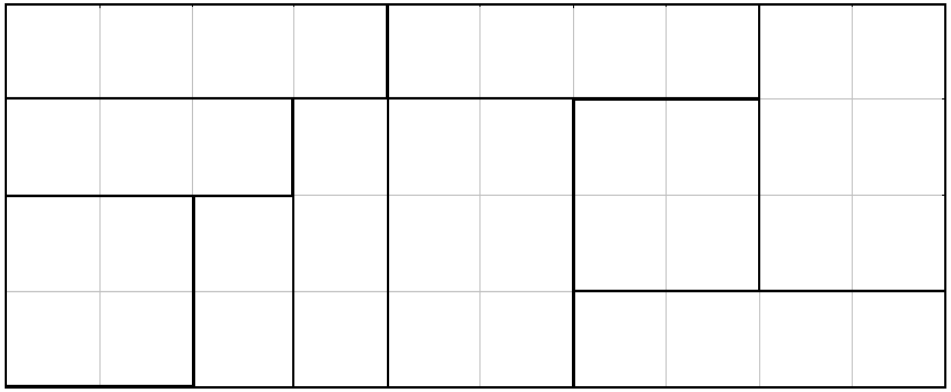
Modal Class = Skewness = 0



Class Interval	Frequency	Cumulative frequency	Class width	Frequency Density	midpt	f x midpt
	40					
				3	30	
40-60				2		
					70	

Modal Class = 10-20 Skewness = +ve

Mean = 36.25 Median =



Histogram Reconstruction

Cut up the rectangle above to create eleven rectangles that fit together to create the three missing histograms.

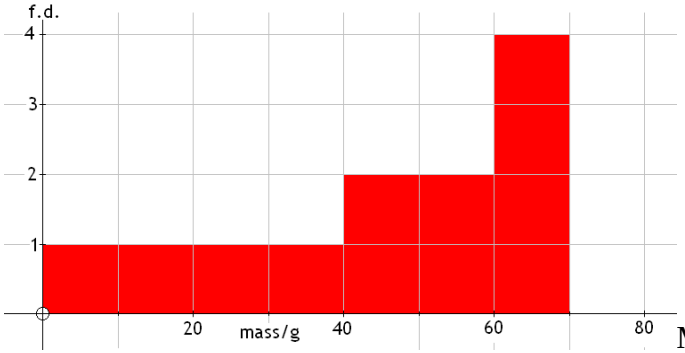
The rectangles represent data on the masses of three bags of nuts. No nut has a mass greater than 80g.

You have to work out from the clues given where the rectangles fit on the three histograms.

Stick/draw the rectangles into the right places and complete the tables for each histogram.

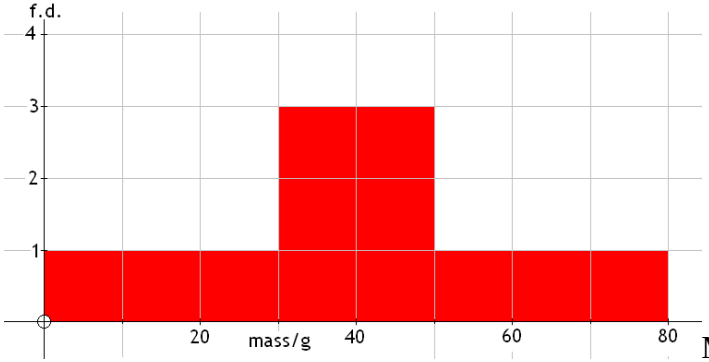
60-80 here means “60 up to but not including 80”

SOLUTIONS:



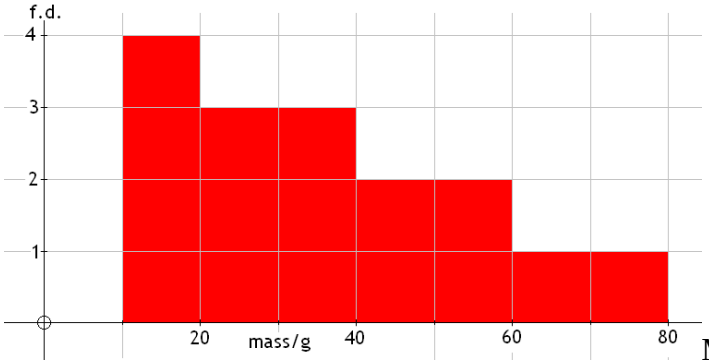
Class Interval	Freq	Cum.freq	Class width	Freq.Den.	midpt	f x midpt
0-40	40	40	40	1	20	800
40-60	40	80	20	2	50	2000
60-70	40	120	10	4	65	2600
	120					5400

Mean = 45 Median = 50 Modal Class = 60-70 Skewness = -ve



Class Interval	Freq	Cum.freq	Class width	Freq.Den.	midpt	f x midpt
0-30	30	30	30	1	15	450
30-50	60	90	20	3	40	2400
50-80	30	120	30	1	65	1950
	120					4800

Mean = 40 Median = 40 Modal Class = 30-50 Skewness = 0



Class Interval	Freq	Cum.freq	Class width	Freq.Den.	midpt	f x midpt
10-20	40	40	10	4	15	600
20-40	60	100	20	3	30	1800
40-60	40	140	20	2	50	2000
60-80	20	160	20	1	70	14
	160					5800

Mean = 36.25 Median = 33.33 Modal Class = 10-20 Skewness = +ve