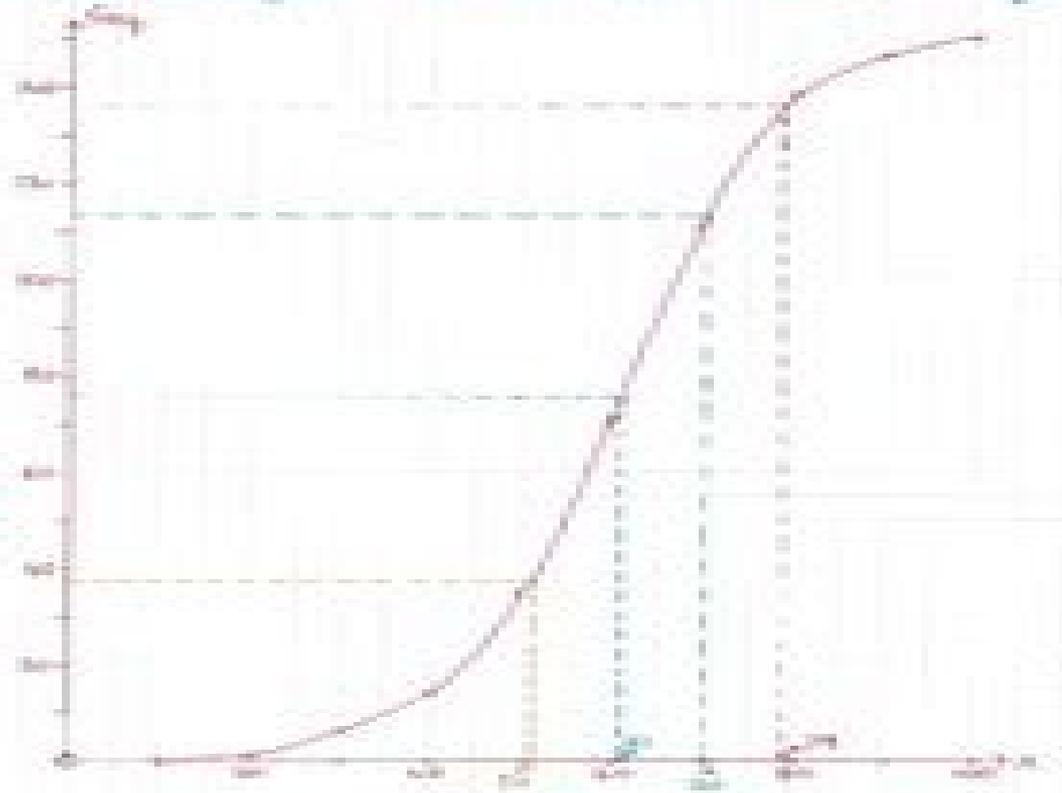


## CUMULATIVE FREQUENCY

→ It is hard to see what proportion of the data is above or below a certain value. Adding on the frequency of each successive class, we build a 'cumulative freq.' column. We plot this against the UG of each class, then realize:

Class	freq.	Real UG	CF
100-120	2	110	2
120-140	5	130	7
140-160	9	150	16
160-180	22	170	38
180-200	34	190	72
200-220	42	210	114
220-240	24	230	138
240-260	10	250	148
260-280	5	270	153



1. 100-120, 2, 110, 2

2. 120-140, 5, 130, 7  
 3. 140-160, 9, 150, 16

→ Start at  $(110)^{th}$  position on curve, trace across to the curve, then down to the X-axis, that's what your median. (See blue line)

4. 160-180, 22, 170, 38  
 5. 180-200, 34, 190, 72

→ Use the same process as above, but you need to start at  $(72)^{th}$  position.

6. 200-220, 42, 210, 114  
 7. 220-240, 24, 230, 138

→ Use the same process as above, but you need to start at  $(114)^{th}$  position.

8. 240-260, 10, 250, 148  
 9. 260-280, 5, 270, 153

→ Similar process, but with  $(153)^{th}$  if you are trying to find the  $90^{th}$  percentile.

→ L.C.U. value:  $90^{th}$  percentile = 205.9

$L.C.U. = \text{Median} = 210$

$UG = 50$

$UG = 70$

$90^{th}$  percentile = 79

$500 - 70 - 50 = 18$

# Ib Math Studies Sl Topic 2 Descriptive Statistics Notes

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**7 3 lewis symbols and structures chemistry 2e openstax** - May 01 2022

web lewis structures we also use lewis symbols to indicate the formation of covalent bonds which are shown in lewis structures drawings that describe the bonding in molecules and polyatomic ions for example when two chlorine atoms form a chlorine molecule they share one pair of electrons

**lewis dot structures quiz chemquiz net** - Oct 06 2022

web this online quiz is intended to give you extra practice in identifying and drawing lewis dot structures as well as predicting ion formation this quiz aligns with the following ngss standard s hs ps1 1

**lewis structures chemistry libretexts** - Dec 08 2022

web jan 30 2023 a lewis structure is a very simplified representation of the valence shell electrons in a molecule it is used to show how the electrons are arranged around individual atoms in a molecule electrons are shown as dots or for bonding electrons as a line between the two atoms

*lewis dot structures chemistry libretexts* - Jan 09 2023

web jan 30 2023 follow these simple steps to draw lewis dot structures draw the atoms on paper and put dots around them to represent valence electrons of the atom be sure to have the correct number of electrons if the species is an ion add or subtract electrons corresponding to the charge of the ion

*lewis dot structure practice problems with answers and youtube* - Apr 12 2023

web mar 24 2018 practice drawing lewis structures with answers and explanation the video covers the basic lewis structures for a general chemistry class the five steps a

