

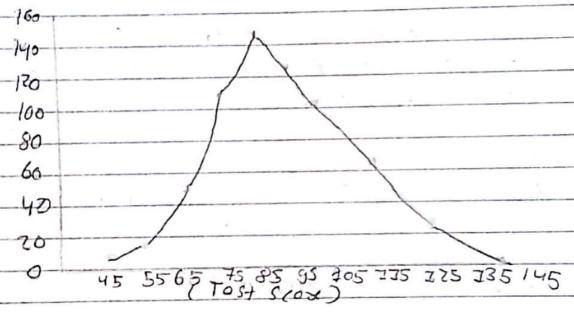
Choosing an Appropriate Bin width The bin width (class interval width) determines the number of intender and offects here the histogram looks.

Too many intervals -> To detailed, look & (hoppy) Too den intervals -) oversimplified, lacks dotail Ino common rules help de termin bin with: J Stinger Rule . Number of intervals of Itloga(N) (or 1+3.3 log_(N))
. This roule morks best for small datagets but may undertake interials dos larges datasets Z Rica Rulo Number of gatesals = 2 x (cuboxoot at N) Patorad dos larger data set Relativo de grany Histograms Summary of trequercy polygons

A treasurcy polygon is a crouph that telps visualize
the stupps of a datasetis distribution. It works similarly to histogram but connects date points with live instead How to create a frequency polygon Begin by grouping data into dars interest, similar to Class forgenues (Lew Liny values fall interest)
Midpoints of class interests (Void for plotting)

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Example Psychology Told Sci	585	
Example Psychology Tost Sca Interval Clorer limit-Upperlimit)	MidPoint	· I-sequency
39.5-49.5	45	3
49.5-59.5	55	78
59.5-69.5	65	53
62.5-79.5	75	107
	85	147



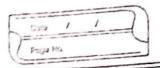
The psychology test scores stem sight become high score

Cumulatère fequercy Polygons

A cumulative oscaluncy polygon callo called an ogive sepresents the total count of observations up to a given class interval

How to leate a cumulative frequency polygon

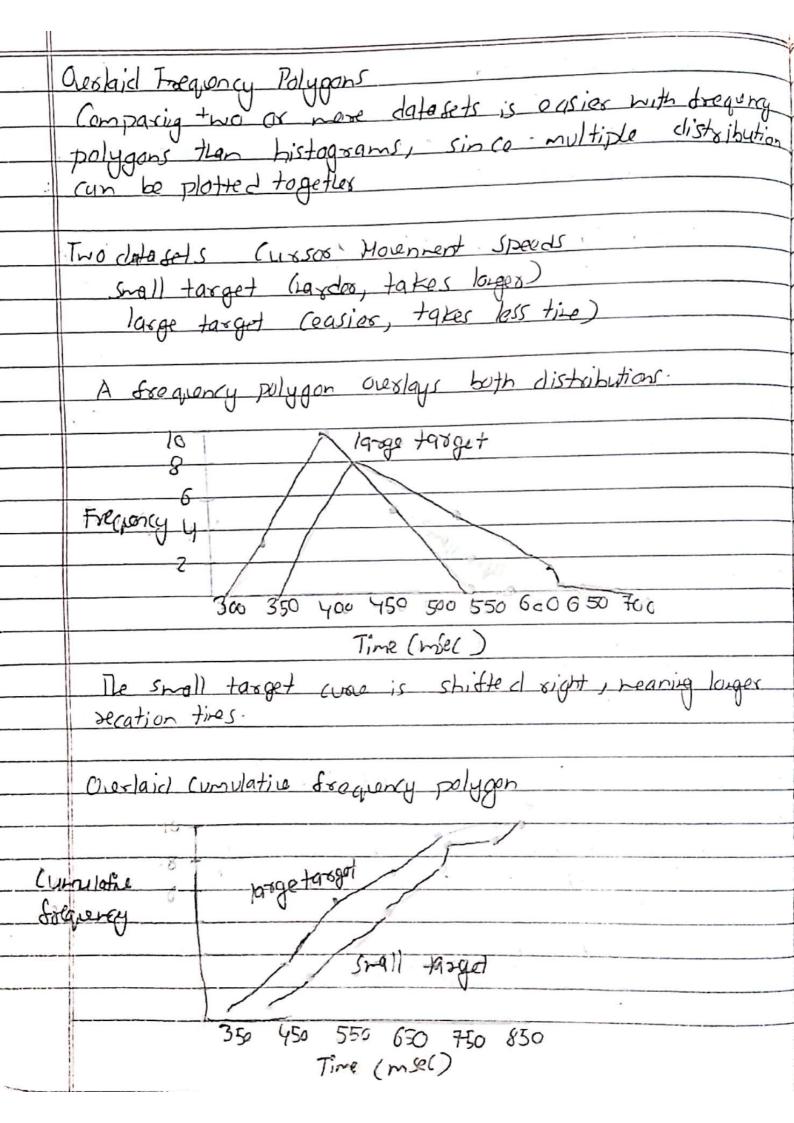
Instead of plotting & an frequencies, each y who is
the cumulative total of all previous frequencies



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	Instead of platting son fre	quercies,	04(h /- 1)	
0	The fiel and all	Provicus	frequencia	total number
	The died cumulation of observations	TO Warry	equels the	70191
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	49.5 - 59.5	<u>45</u> 55	10.	. 13
	59-5-69-5	65	53	66
	69.5-79.5	75	107	173
	79.5-89.5	85	147	370
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Key insights from a cumulative traquency polygon.
Helps determine porcentiles and medians casily

The cumulative of sequency of 35 corresponds to 13 students, meaning 13 students scorde 55 or lover



The small target polygon is below the large target polygon, indicating larger completion tips for smaller to gets.

Key Takenays

Frequency polygons telp visualize distributions (unulatio troquency tolygons telp analyzo percentile antiques Overslaid drequency polygons make it casy to compare multiple datasets