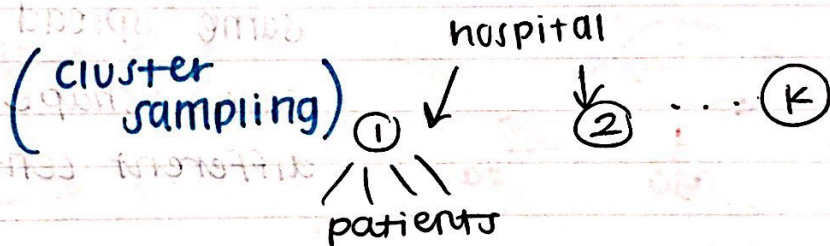
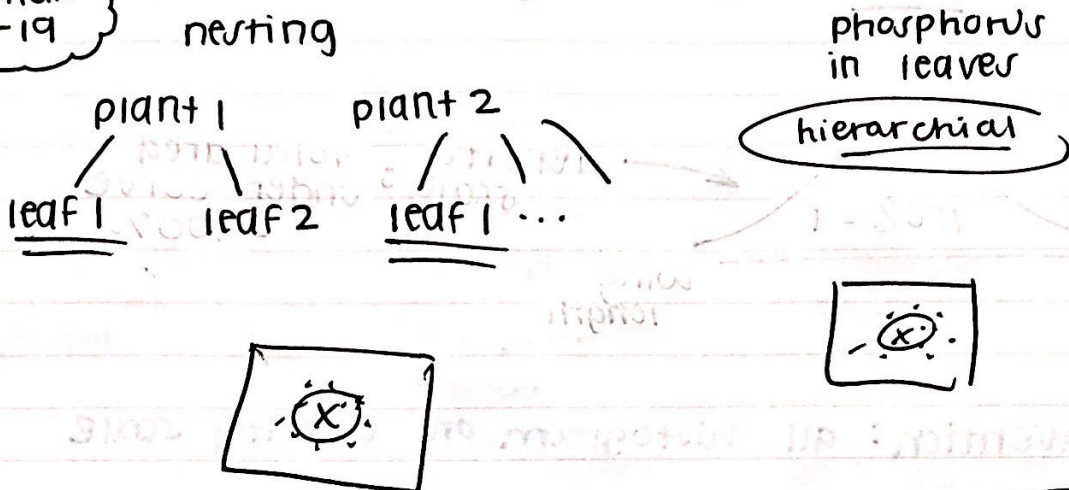


RAW & RELATIVE FREQUENCY AND DENSITY SCALE HISTOGRAMS
HISTOGRAM SHAPES (10/8/19)



PAGE
L-19



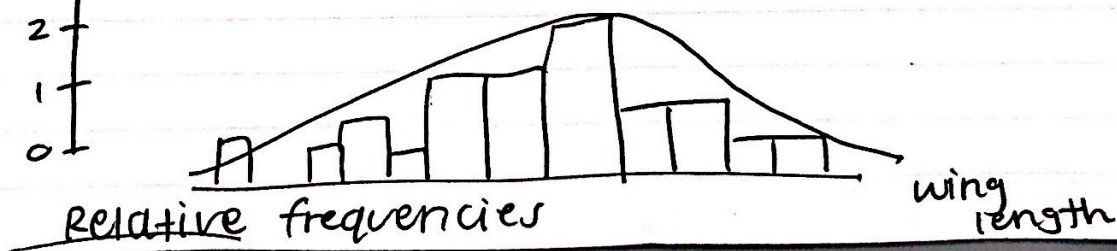
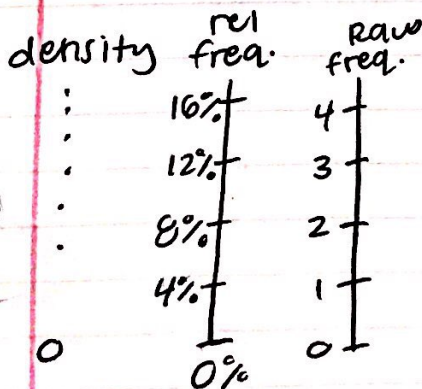
Histogram complexity

① horizontal scale: right # of bars

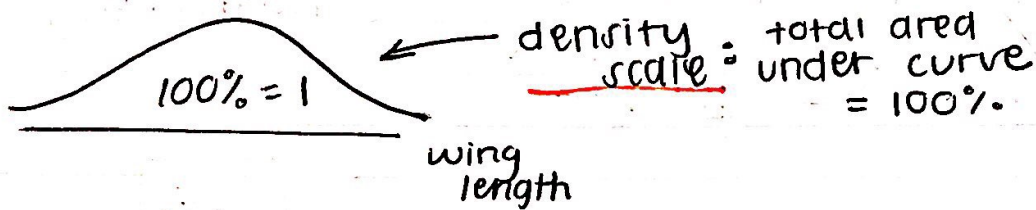
② vertical scale:

↳ 3 types of hist. by vertical scale:

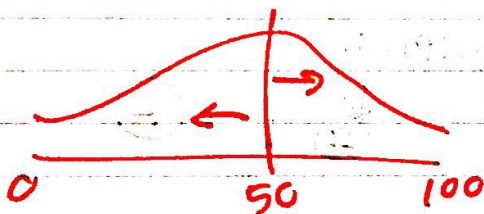
- 1) Raw Frequency
- 2) Rel Frequency
- 3) density scale



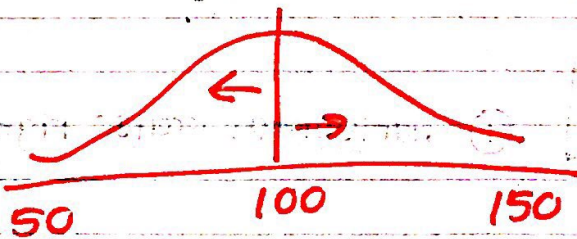
When histogram is drawn on density scale, relative frequencies (%) is portrayed with area under histogram is portrayed (represented)

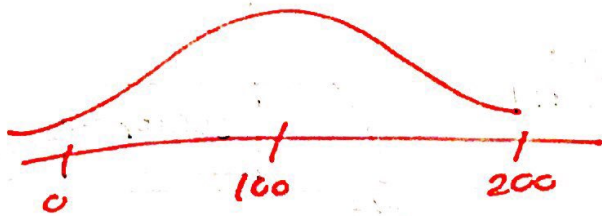


convention: all histogram on density scale

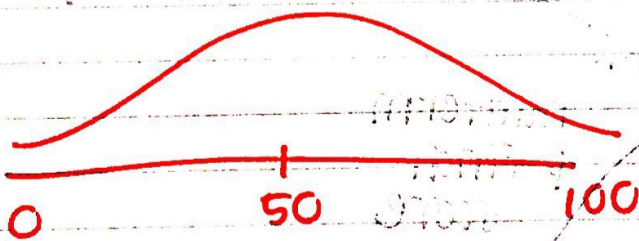
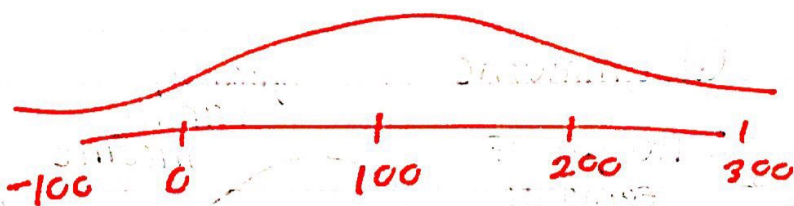


same spread ← num
same shape ← words
different center

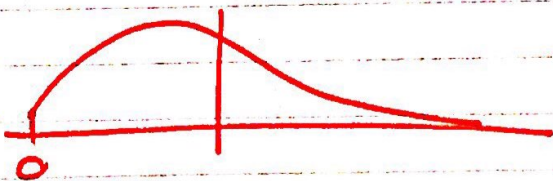


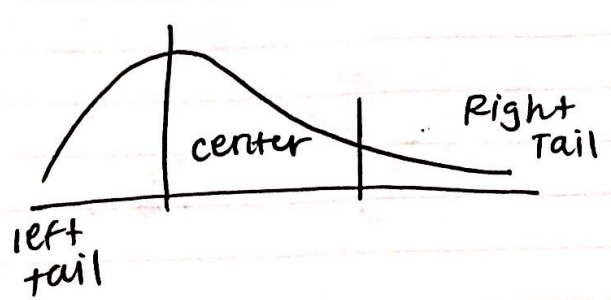
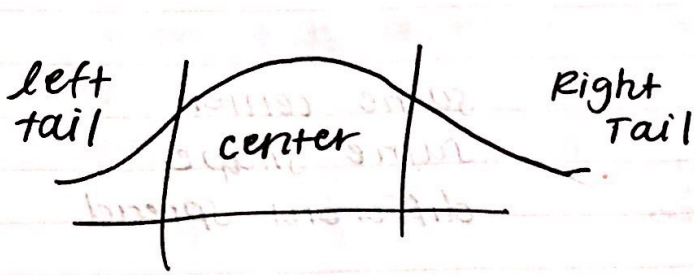


same center
 same shape
 different spread



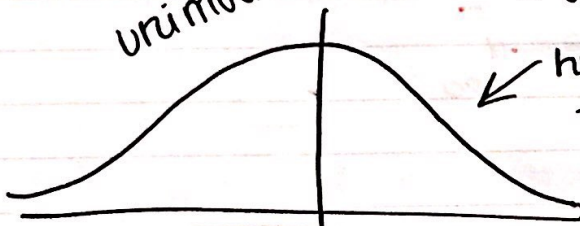
same center
 same spread
 different shape





unimodal

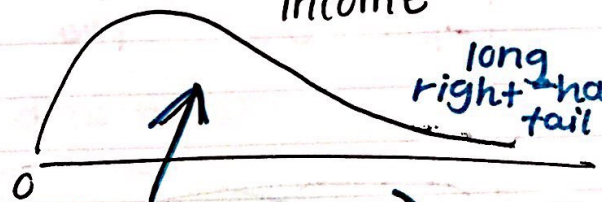
① symmetric



point of symmetry

height of females

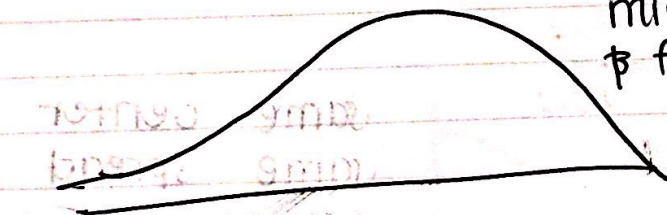
yearly family income



long right-hand tail

(asymmetric skewed)

midterm & final score



long left hand tail