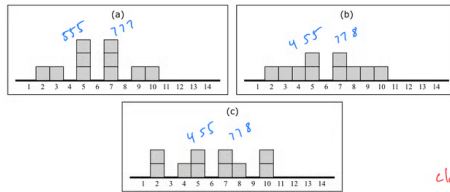


Comparing standard deviations without calculation

QUESTION

Three distributions, labeled (a), (b), and (c), are represented below by their histograms. Each distribution is symmetrical and is made of 10 measurements. Without performing any calculations, order their respective standard deviations σ_a , σ_b , and σ_c .



All of them are from 2-10 so look at middle

In order (middle 6 numbers)

close together { 5 5 5 7 7 7 a
 3 4 5 5 7 7 8 9 b
 2 4 5 5 7 7 8 10 c

exp'd v/c middle 6 are the same

We are looking at how spread out the data is