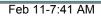
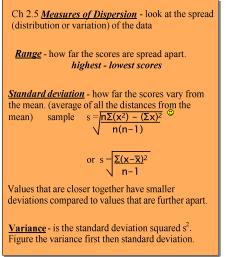
Bell Work Chapter 2.5 Intro to Measures of Dispersion

Find the *3 measures of central tendency* for the following 2 sets of data. Then determine which is the *better brand* of paint if the data is representing the number months the paint will last?

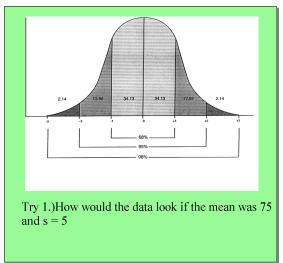
Brand A: 10, 60, 50, 30, 40, 20

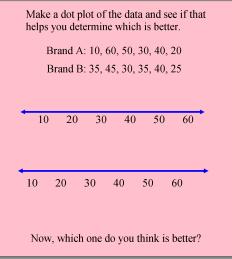
Brand B: 35, 45, 30, 35, 40, 25



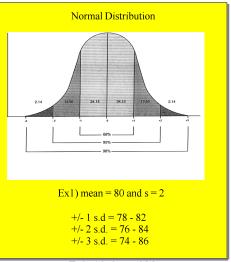


Feb 18-8:35 AM

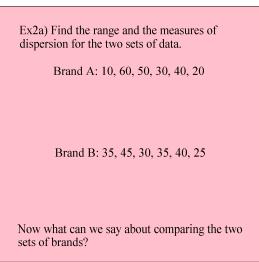


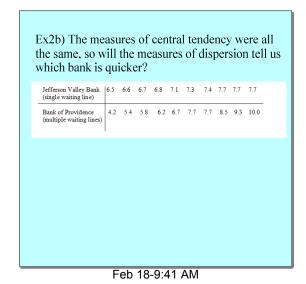


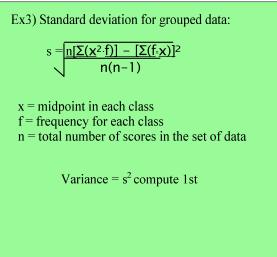




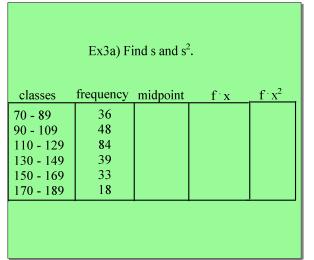
Feb 18-8:45 AM





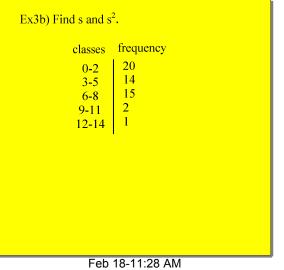


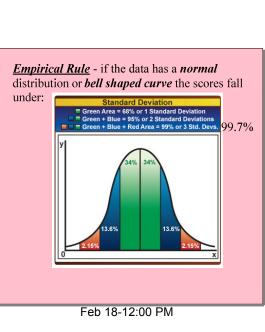




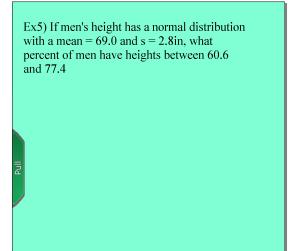
Feb 18-11:24 AM

Range Rule of Thumb - for many sets of
data 95% of the sample values fall with in 2
standard deviations from the mean. $s = \underline{range}$ minimal value: \overline{x} -2s
max value: \overline{x} + 2sEx4a) If the range is 1.2, what would be s using
the range rule of thumb?Ex4b) If s = 2.4 and $\overline{x} = 10.5$ what would be your
min and max values?





Feb 18-11:57 AM



Feb 18-12:33 PM

Ex5) Chebyshev's Theorem - applies to any data set. k = # standard deviations $\frac{96 = 1 - \frac{1}{k^2}}{k^2}$ 2 s.d = 75% 3 s.d.= 89% Ex5a) 75% of men's height would fall where? Ex5b) 89% of men's height would fall where? Ex5b) 89% of men's height would fall where?