

Another tool for analyzing data is a Boxplot (or Box and Whisker Diagram).

1. Given the following data set

332 364 393 347 350 353 357 296 358 322 337 323 333 299 316 275

(a). Use your calculator to find the 5 number summary.

(b). Construct a boxplot.

Boxplots are often used to help with comparing two data sets.

2. The following data gives the time (in months) that 20 nurses have been at their current position at General Hospital.

23 2 5 14 25 36 27 42 12 8 7 23 29 26 28 11 20 31 8 36

The following data gives the time (in months) that 20 people in the clerical staff have been at their current position at General Hospital.

25 22 7 24 26 31 18 14 17 20 31 42 6 25 22 3 29 32 15 72

(a). Construct separate boxplots (on the same scale) for each data set.

(b). Compare the two data sets.

(c). Does the data indicate that General Hospital should be concerned that about a high turnover of nurses compared with the clerical staff?