Name: _____ Date: _____

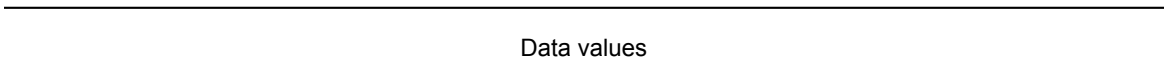
Service time measurements

Service times (minutes): 6, 7, 8, 8, 9, 10, 10, 10, 11, 12, 12, 13, 14, 15, 40. Use the median excluded quartile convention and the ordinary 1.5 IQR outlier rule.

(a) Find the five number summary. Leave the median out of both halves when finding quartiles.

(b) Find the IQR and the two 1.5 IQR fences. Identify any outliers.

(c) Draw a modified boxplot. Label the median and the whisker endpoints. Show outliers separately.



Data values

(d) Describe the tail pattern and choose a suitable measure of center. What information does the boxplot hide?

Daily change measurements

Daily changes (units): -18, 2, 3, 4, 4, 5, 5, 6, 6, 7, 8, 8, 9, 10, 11. Use the median excluded quartile convention and the ordinary 1.5 IQR outlier rule.

(a) Find the five number summary. Leave the median out of both halves when finding quartiles.

(b) Find the IQR and the two 1.5 IQR fences. Identify any outliers.

(c) Draw a modified boxplot. Label the median and the whisker endpoints. Show outliers separately.

Data values

(d) Describe the tail pattern and choose a suitable measure of center. What information does the boxplot hide?

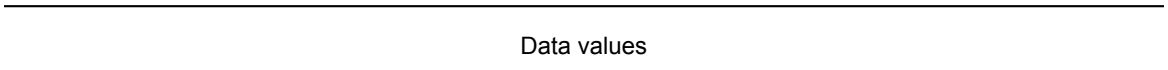
Quartile practice

Service times (minutes): 2, 4, 5, 7, 8, 9, 12, 14, 15, 18, 29. Use the median excluded quartile convention and the ordinary 1.5 IQR outlier rule.

(a) Find the five number summary. Leave the median out of both halves when finding quartiles.

(b) Find the IQR and the two 1.5 IQR fences. Identify any outliers.

(c) Draw a modified boxplot. Label the median and the whisker endpoints. Show outliers separately.



(d) Describe the tail pattern and choose a suitable measure of center. What information does the boxplot hide?