## MTH 214: Statistics, Spring 2019

Quiz 1

Here is the number of children the mother of each student in the class had:

- (1) Write down the five number summary for this data set, i.e. minimum,  $Q_1$ , median,  $Q_3$ , max.
- (2) What is the interquartile range (IQR)?
- (3) Sketch the box plot for this data set.
- (4) What proportion of the data is meant to lie inside the interquartile range?
- (5) What proportion of the data points actually lie inside the interquartile range, i.e. are greater than or equal to  $Q_1$  and also less than or equal to  $Q_3$ ?

1) min  $Q_1$  median  $Q_3$ 2)  $IQR = Q_3 - Q_1 = 1$ 3)  $\frac{1}{2}$   $\frac{2}{3}$   $\frac{4}{5}$   $\frac{5}{3}$ 4)  $507_6$