Section 1.3

1. Here are data on the amount of fat (in grams) in 9 different McDonald's fish and chicken sandwiches:

Sandwich	Fat (g)
Filet-O-Fish®	19
McChicken®	16
Premium Crispy Chicken Classic Sandwich	22
Premium Crispy Chicken Club Sandwich	33
Premium Crispy Chicken Ranch Sandwich	27
Premium Grilled Chicken Classic Sandwich	9
Premium Grilled Chicken Club Sandwich	20
Premium Grilled Chicken Ranch Sandwich	14
Southern Style Crispy Chicken Sandwich	19

(a) Find the mean amount of fat for fish and chicken sandwiches.

(b) The Premium Crispy Chicken Club Sandwich is a potential outlier. How much does this one sandwich increase the mean?

2. Here are data for the amount of fat (in grams) for McDonald's beef sandwiches.

Sandwich	Fat
Big Mac®	29
Cheeseburger	12
Daily Double	24
Double Cheeseburger	23
Double Quarter Pounder® with cheese	43
Hamburger	9
McDouble	19
McRib®	26
Quarter Pounder® Bacon and Cheese	29
Quarter Pounder® Bacon Habanero Ranch	31
Quarter Pounder® Deluxe	27
Quarter Pounder® with Cheese	26

(a) Make a stemplot of the data. Be sure to include a key.

(b) Find the median by hand. Show your work.

(c) Find and interpret the *IQR* for the distribution of fat in McDonald's beef sandwiches.

(d) Determine whether there are any outliers in the distribution of fat for McDonald's beef sandwiches.

Who Has More Contacts—Males or Females?

The following data show the number of contacts that a sample of high school students had in their cell phones. What conclusion can we draw? Give appropriate evidence to support your answer.

Male:	124 41 29 27 44 87 85 260 290 31 168 169 167 214 135 114 105 103 96 144
Female:	30 83 116 22 173 155 134 180 124 33 213 218 183 110

Do males and females differ in the number of contacts they have in their phones?