## Group Work - Week 5

- 1 The file "heights.csv" on D2L has heights in inches of a sample of 25 men and 25 women.
- (a) Create 5 number summaries and boxplots for both men and women.

(b) Consider a man who is 68.5 inches tall and a woman who is 63.25 inches tall. What are the z-scores for height for both of these individuals? Who is taller relative to their gender?

(c) What percentile is 71 inches for a man? What height is the 80th percentile for women?

and the w get 10 tick	se you encounter the following game at a school carnival: A wheel with colored spokes is spuncheel comes to rest with a pointer pointing at one of the spokes. If you land on a gold spoke, you sets. You get 4 tickets for landing on blue and 2 tickets for landing on red. If you land on black, othing. There are 9 black spokes, 6 red spokes, 4 blue and 1 gold spoke. The game cost three play.
(a) Crea	ate a probability distribution which describes this game.
is th	many tickets should you expect to win? That is, what is the expected value of the game? What is standard deviation of tickets won? If you play this game many times, are you likely to end up a more or less tickets than when you started?
(c) Is w	inning 4 tickets a significantly high number of tickets to win?