**R Code for Examples in the book**



***“Statistics: The Art and Science of Learning from Data”***

**by Agresti, Franklin and Klingenberg, 5th edition**

**Chapter 6**

**Example 11: Test Scores that Use Different Scales – Comparing z-Scores**

## Reading in SAT data

mean\_SAT <- 500  
sd\_SAT <- 100

## To compute the z-Score of an SAT score of 650

z\_SAT <- (650 - mean\_SAT) / sd\_SAT  
z\_SAT

## [1] 1.5

## Reading in ACT data

mean\_ACT <- 21.0  
sd\_ACT <- 4.7

## To compute the z-Score of an ACT score of 30

z\_ACT <- (30 - mean\_ACT) / sd\_ACT  
z\_ACT

## [1] 1.914894