a <- "Heather"

b1 <- 45.6

b2 <- "45.6"

c1 <- (0:3)

**# Q1:** Variable a contains Character data

class(a)

**# Q2:** Variable b1 contains Numeric data

class(b1)

**# Q3:** Variable b2 contains Character data

class(b2)

**# Q4:** b1 and b2 cannot be combined because b2 is character data and b1 is numeric data

**# Q5:** b1 and c1 are not the same type, b1 is numeric data and c1 is integer data

class(c1)

**# Q6:** When adding b1 and C1 to get [1] 45.6 46.6 47.6 48.6. Because c1 <- (0, 1, 2, 3) when you add b1 it adds 45.6 to each integer in the sequence individually.

**# Q7:** v1 <- c(-2, -1, 0, 1, 2)

**# Q8:** v2 <- c(v1 \* 3)

**# Q9:** sum(v2)

**# Q10:** vec\_4 <- c(1:12)

mat\_1 <- matrix(vec\_4, byrow = TRUE, nrow = 3)

**# Q11:** mat\_2 <- matrix(vec\_4, byrow = FALSE, nrow = 3)

**# Q12:** my\_list\_1 <- list(5.2, "five point two", (c(0:5)))

names(my\_list\_1) <- c("one", "two", "three")

**# Q13:** my\_list\_1[3]

**# Q14:** my\_list\_1[["one"]]

**# Q15:** my\_vec = rep(1:3, 5)

my\_vec

my\_bool\_vec <- my\_vec == (3)

**# Q16:** my\_vec[my\_bool\_vec]