

Heather Siart  
ECO-602/634

```
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]
```