

#Q1

Since a contains the text of my first name it will be a character

#Q2

Since b1 contains 45.6 it is numeric

#Q3

b2 is a string function

#Q4

b1=45.6

b2="45.6"

b1+b2

When I tried to add the two together I received an error because they were two different dataset.

#Q5

c1=0:3

c1

class(c1)

class(b1)

The variable b1 and c1 are not the same type. b1 is numeric and c1 is an integer.

#Q6

c1+b1

When you add b1 + c1 it adds the integer to the numeric values and give us the answers.

#Q7

v1= -2:2

v1

#Q8

v2= v1 * 3

v2

#Q9

sum(v2)

The sum of all the elements in v2 is 0.

#Q10

```
vec_4= 1:12  
vec_4
```

#Q10

```
mat_1= matrix(vec_4, byrow= 3, ncol= 4)  
mat_1
```

#Q11

```
mat_2= matrix(vec_4, nrow= 3, ncol= 4)  
mat_2
```

#Q12

```
my_list_1= list(5.2, "five point two", 0:5)  
my_list_1
```

#Q13

```
names(my_list_1)= c("two", "one", "three")  
my_list_1$three
```

#Q14

```
my_list_1[2]
```

#Q15

```
my_vec= rep(1:3,5)  
my_vec
```

```
my_bool_vec= my_vec==3  
my_bool_vec
```

#Q16

```
bool_df= data.frame(my_vec, my_bool_vec)  
bool_df[my_bool_vec,"my_vec"]
```