

Answers:

1. a) False

b) True

2. Recycling of elements in a vector in R is a feature which automatically repeats the elements of the shorter vector to repeat till it equals the longer vector.

3. For example

```
b <- c(10,20)
```

```
a <- c(10,20,30,40,50)
```

```
b/a
```

The result would be 1 1 3 2 5

where the operation $30/10$, $40/20$ and $50/10$ is executed after the first cycle