If you have assigned the number 6 to `my_pears`, and the word "six" to `my_apples`, you cannot multiply `my_pears` and `my_apples`

- True
- False

(no answer)

Correct Answer: **True**

11 0 / 1 point

Which of these are data types in R?

- integer, logical, character, array
- numeric, integer, logical, character
- arithmetic, logical, character, time series
- numeric, logical, character,matrix

(no answer)

Correct Answer: **numeric, integer, logical, character**

12 0 / 1 point

You want to create a vector `foo` of values 1, 2 and 3 using the assignment operator. Which commands can you use to do this?

- `foo <- cbind(c(1,2,3))`
- `foo <- 1,2,3`
- `foo <- c(1,2,3)`

Missed Option - Incorrect

- `foo <- vector(1,2,3)`

(no answer)

13 0 / 1 point

What happens when you use the sum() function on a vector?

- R adds up only the positive numbers in a numeric vector
- R adds up all elements in a logical vector

Missed Option - Incorrect

- R adds up the number of values in a character vector
- R adds up all the numbers in a numeric vector

Missed Option - Incorrect

(no answer)

14 0 / 1 point

How can you test whether or not two values or vectors x and y are equal?

- `y==x`

Missed Option - Incorrect

- `x!=y`

Missed Option - Incorrect

- `x==y`

Missed Option - Incorrect

- `y<x`

(no answer)

15 0 / 1 point

What is the name of a number, e.g. `names(1)`?

- NA
- 0
- 1
- NULL
- NaN

(no answer)

Correct Answer: **NULL**

16 0 / 1 point

What is a factor?

- A statistical data type which must be used when working with data frames
- A statistical data type used to store categorical variables

Missed Option - Incorrect

- A statistical data type which can be used to help plot with colors

Missed Option - Incorrect

- An equivalent to the character data type

(no answer)

17 0 / 1 point

A categorical variable can only take on a limited, usually fixed number of possible values.

- True
- False

(no answer)

Correct Answer: **True**

18 0 / 1 point

How can you change the `levels` of the `factor` vector `ToothGrowth$supp` from `OJ` and `VC` to `Orange Juice` and `Vitamin C`?

- `levels('OJ' -> 'Orange Juice', 'VC' -> 'Vitamin C')`
- `levels(ToothGrowth$supp) <- c('Orange Juice', 'Vitamin C')`
- `names(ToothGrowth$supp) <- c('Orange Juice', 'Vitamin C')`
- `factor(ToothGrowth$supp, levels=c('Orange Juice', 'Vitamin C')`

(no answer)

Correct Answer: `levels(ToothGrowth$supp) <- c('Orange Juice', 'Vitamin C')`

19 0 / 1 point

Which of these factor vectors have levels that are not ordered?

- factor(c("male","female"))

Missed Option - Incorrect

- factor(c("medium", "slow", "slow", "medium", "fast"), ordered=TRUE)
- factor(c("AL", "AR", "AZ"))

Missed Option - Incorrect

- factor(c("green", "blue", "white"), ordered=TRUE)

(no answer)