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1. A data analyst is assigning a variable to a value in their company's sales dataset for 2020. Which variable name uses the correct syntax?

1 / 1 point

- ☐ 2020_sales
- ☐ -sales-2020
- ☐ 2020sales
- ☒ sales_2020

✔ Correct

The variable with the correct syntax is `sales_2020`. A variable name in R may contain numbers and underscores as well but not as the first character.

2. You want to create a vector with the values 21, 12, 39, in that exact order. After specifying the variable, what R code chunk allows you to create the vector?

1 / 1 point

- ☐ `c(39, 12, 21)`
- ☒ `c(21, 12, 39)`
- ☐ `v(21, 12, 39)`
- ☐ `v(39, 12, 21)`

✔ Correct

The code chunk `c(21, 12, 39)` allows you to create a vector with the values 21, 12, 39. A vector is a group of data elements of the same type stored in a sequence in R. You can create a vector by putting the values you want inside the parentheses of the combine function.

3. An analyst comes across dates listed as strings in a dataset, for example `December 10th, 2020`. To convert the strings to a date/time data type, which function should the analyst use?

1 / 1 point

- ☐ `lubridate()`
- ☐ `now()`
- ☒ `mdy()`
- ☐ `datetime()`

✔ Correct

To convert the strings to date/time data types, the analyst should use the function `mdy()`. The `mdy()` function and other variations of the `ymd()` function convert string dates and times into date/time data types that are compatible with R.

4. A data analyst inputs the following code in RStudio:

```
sales_1 <- (3500.00 * 12)
```

Which of the following types of operators does the analyst use in the code? Select all that apply.

1 / 1 point

- ☐ Logical
- ☐ Relational
- ☒ Arithmetic

✔ Correct

In the code `sales_1 <- (3500.00 * 12)`, the analyst uses an assignment (`<-`) and an arithmetic (`*`) operator. The assignment operator assigns the calculated value in parentheses to the variable `sales_1` and the arithmetic operator multiplies the values in parentheses to complete the calculation.

☒ Assignment

✔ Correct

In the code `sales_1 <- (3500.00 * 12)`, the analyst uses an assignment (`<-`) and an arithmetic (`*`) operator. The assignment operator assigns the calculated value in parentheses to the variable `sales_1` and the arithmetic operator multiplies the values in parentheses to complete the calculation.

5. Which of the following files in R have names that follow widely accepted naming convention rules? Select all that apply.

1 / 1 point

- ☐ `title*123.R`
- ☒ `patient_data.R`

✔ Correct

The files with names that follow widely accepted naming convention rules are `patient_data.R` and `patient_details_1.R`. These file names end in `.R` and use only lowercase letters, numbers, and underscores. They are also clear, concise, and meaningful.

☒ `patient_details_1.R`

✔ Correct

The files with names that follow widely accepted naming convention rules are `patient_data.R` and `patient_details_1.R`. These file names end in `.R` and use only lowercase letters, numbers, and underscores. They are also clear, concise, and meaningful.

☐ `p1=infoonpatients.R`

6. Which of the following are included in R packages? Select all that apply.

1 / 1 point

☒ Sample datasets

☒ Correct

R packages include reusable R functions, sample datasets, and tests for checking your code. R packages also include documentation about how to use the included functions.

☒ Tests for checking your code

☒ Correct

R packages include reusable R functions, sample datasets, and tests for checking your code. R packages also include documentation about how to use the included functions.

☒ Reusable R functions

☒ Correct

R packages include reusable R functions, sample datasets, and tests for checking your code. R packages also include documentation about how to use the included functions.

☐ Naming conventions for R variable names

7. What is the relationship between RStudio and CRAN?

1 / 1 point

☐ CRAN creates visualizations based on an analyst's programming in RStudio.

☐ RStudio and CRAN are both environments where data analysts can program using R code.

☐ CRAN contains all of the data that RStudio users need for analysis.

☒ RStudio installs packages from CRAN that are not in Base R.

☒ Correct

RStudio installs packages from CRAN that are not in Base R. CRAN is an online archive with R packages and other R-related resources that makes sure the resources are authentic and valid.

8. A data analyst is reviewing some code and finds the following code chunk:

1 / 1 point

```
mtcars %>%  
  filter(carb > 1) %>%  
  group_by(cyl) %>%
```

What is this code chunk an example of?

☒ Pipe

☐ Vector

☐ Data frame

☐ Nested function

☒ Correct

The code chunk is an example of a pipe. A pipe is a tool for expressing a sequence of multiple operations in R (in this case filtering and grouping). The operator for a pipe is %>%.