Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 100%

Weekly challenge 3

LATEST SUBMISSION GRADE

✓ Correct

100%					
1.	A data analyst is working with a dataset in R that has more than 50,000 observations. Why might they choose to use a tibble instead of the standard data frame? Select all that apply.	1/1 point			
	Tibbles can create row names				
	Tibbles can automatically change the names of variables				
	Tibbles automatically only preview the first 10 rows of data				
	Correct Tibbles make printing in R easier. They won't accidentally overload the data analyst's console because they're automatically set to pull up only the first 10 rows and as many columns as fit on screen.				
	Tibbles automatically only preview as many columns as fit on screen				
	Correct Tibbles make printing in R easier. They won't accidentally overload the data analyst's console because they're automatically set to pull up only the first 10 rows and as many columns as fit on screen.				
2.	A data analyst is exploring their data to get more familiar with it. They want a preview of just the first six rows to get a better idea of how the data frame is laid out. What function should they use?	1 / 1 point			
	Colnames()				
	head()				
	preview()				
	oprint()				

The head() function can be used to return a preview of the first six rows of a data frame. This is a useful way to explore a data frame and get more familiar with how it is structured.

3. You are working with the ToothGrowth dataset. You want to use the glimpse() function to get a quick summary of the dataset. Write the code chunk that will give you this summary.

1 / 1 point

1 glimpse(ToothGrowth)	
	Run
	Reset
Observations: 60 Variables: 3 \$ len <dbl> 4.2, 11.5, 7.3, 5.8, 6.4, 10.0, 11.2, 11.2, 5.2, 7.0, 16.5, 16 \$ supp <fctr> VC, VC, VC, VC, VC, VC, VC, VC, VC, VC,</fctr></dbl>	
4	

How many variables does the ToothGrowth dataset contain?

- O 5
- 3
- \bigcirc 2
- \bigcirc 4

✓ Correct

The code chunk <code>glimpse(ToothGrowth)</code> gives you a quick summary of the dataset. Inside the parentheses of the glimpse() function is the name of the dataset you want to view. The code returns a summary of the number of rows and columns in the dataset. It also shows the names of the columns and the type of data they contain. The ToothGrowth dataset contains 3 variables.

4. A data analyst is working with the penguins dataset. What code chunk does the analyst write to make sure all the column names are unique and consistent and contain only letters, numbers, and underscores?

1 / 1 point

- rename (penguins)
- select(penguins)
- clean_names(penguins)
- drop_na(penguins)



The code chunk is clean_names (penguins). The clean_names() function ensures that there are only characters, numbers, and underscores in the names used in the data frame.

5. A data analyst is working with the penguins data. They write the following code:

1 / 1 point

```
penguins %>%
```

The variable *species* includes three penguin species: Adelie, Chinstrap, and Gentoo. What code chunk does the analyst add to create a data frame that only includes the Gentoo species?

- filter(species <- "Gentoo")
- filter(Gentoo == species)
- filter(species == "Adelie")
- filter(species == "Gentoo")



The code chunk is filter(species == "Gentoo"). The filter function allows the data analyst to specify which part of the data they want to view. Two equal signs in an argument mean "exactly equal to." Using this operator instead of the assignment operator <- calls only the data about Gentoo penguins to the dataset.

6. You are working with the penguins dataset. You want to use the summarize() and mean() functions to find the mean value for the variable *body_mass_g*. You write the following code:

1 / 1 point

```
penguins %>%
```

drop_na() %>%

group_by(species) %>%

Add the code chunk that lets you find the mean value for the variable body_mass_g.

What is the mean body mass in g for the Adelie species?

	O 4207.433	
	3706.164	
	5092.437	
	3733.088	
	Correct The code chunk summarize (mean (body_mass_g)) lets you find the mean value for the variable body_mass_g. The correct code is penguins %>% drop_na() %>% group_by (species) %>% summarize (mean (body_mass_g)). The summarize() function displays summary statistics. You can use the summarize() function in combination with other functions such as mean(), max(), and min() to calculate specific statistics. In this case, you use mean() to calculate the mean value for body mass. The mean body mass for the Adelie species is 3706.164g.	
7.	A data analyst is working with a data frame named <i>salary_data</i> . They want to create a new column named <i>wages</i> that includes data from the <i>rate</i> column multiplied by 40. What code chunk lets the analyst create the <i>wages</i> column?	1 / 1 point
	<pre>mutate(salary_data, rate = wages * 40)</pre>	
	<pre>mutate(salary_data, wages = rate + 40)</pre>	
	<pre>mutate(wages = rate * 40)</pre>	
	<pre>mutate(salary_data, wages = rate * 40)</pre>	
	✓ Correct The code chunk is mutate(salary_data, wages = rate * 40). The analyst can use the mutate() function to create a new column called wages that includes data from the rate column multiplied by 40. The mutate() function can create a new column without affecting any existing columns.	
8.	The code chunk is mutate (salary_data, wages = rate * 40). The analyst can use the mutate() function to create a new column called wages that includes data from the rate column multiplied by 40. The mutate() function can create a new column without affecting any existing columns.	1/1 point
8.	The code chunk is mutate (salary_data, wages = rate * 40). The analyst can use the mutate() function to create a new column called wages that includes data from the rate column multiplied by 40. The mutate() function can create a new column without affecting any existing columns. A data analyst is working with a data frame named retail. It has separate columns for dollars (price_dollars) and cents (price_cents). The analyst wants to combine the two columns into a single column named price, with the dollars and cents separated by a decimal point. For example, if the value in the price_dollars column is 10, and the value in the price_cents	1 / 1 point
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✓ Correct

The code chunk unite(retail, "price", price_dollars, price_cents, sep=".") lets the analyst create the *price* column. The unite() function lets the analyst combine the dollars and cents data into a single column. In the parentheses of the function, the analyst writes the name of the data frame, then the name of the new column in quotation marks, followed by the names of the two columns they want to combine. Finally, the argument sep="." places a decimal point between the dollars and cents data in the *price* column.

9.		1 / 1 point
	A data analyst is using statistical measures to get a better understanding of their data. What function can they use to determine how strongly related are two of the variables?	
	○ sd()	
	cor()	
	O bias()	
	mean()	
	Correct The cor() returns the correlation between two variables. Correlation shows us how strong the relationship is between two variables.	
10.	A data analyst wants to find out how much the predicted outcome and the actual outcome of their data model differ. What function can they use to quickly measure this?	1/1 point
	<pre>bias()</pre>	
	<pre>mean()</pre>	
	O sd()	
	O cor()	
	Correct The bias() function can be used to calculate the average amount a predicted outcome and actual outcome differ in order to determine if the data model is biased.	