

## EXERCISE 1 KEY

**Purpose:** To get some practice in running an R program and reporting its output. This exercise is due on **Thursday, February 4 by 5:00 PM on Canvas.**

Go to the Canvas homepage for this course and download the R program **Donuts.R** and the csv dataset **DonutData.csv** and use them to complete the following tasks:

(a) Report the “lm” output. Hint: You can use the “snipping” tool to capture this output and report it below.

Call:

```
lm(formula = weight ~ donuts, data = DonutData)
```

Residuals:

Min	1Q	Median	3Q	Max
-92.731	-13.508	3.916	36.081	55.716

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )	
(Intercept)	121.613	16.593	7.329	1.49e-05	***
donuts	9.224	1.959	4.707	0.000643	***

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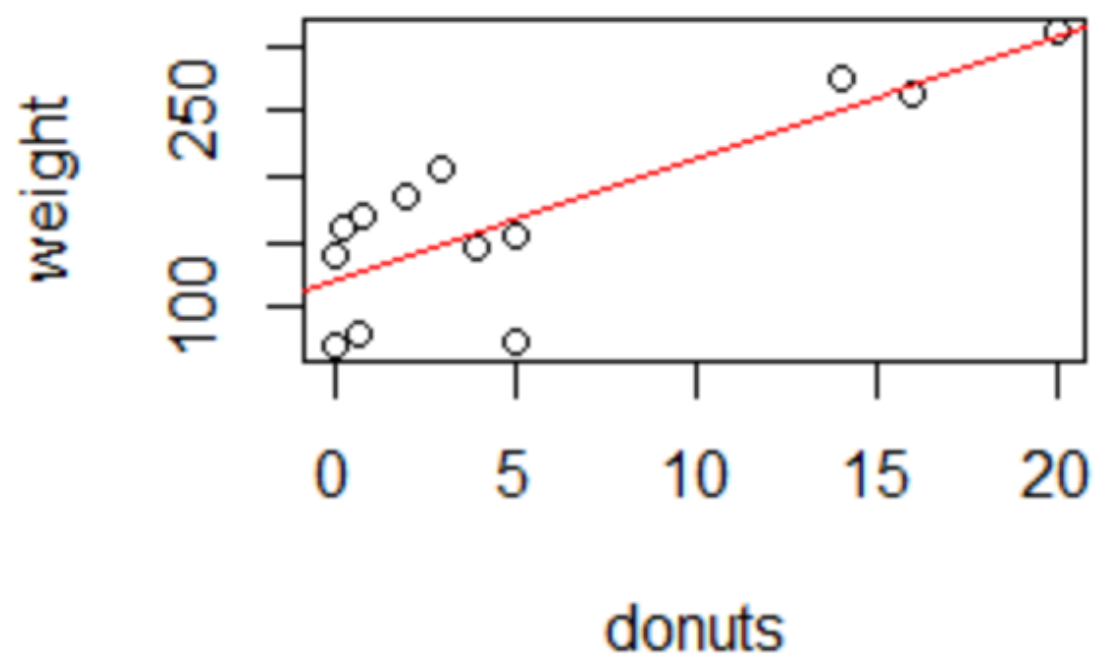
Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 45.81 on 11 degrees of freedom

Multiple R-squared: 0.6683, Adjusted R-squared: 0.6381

F-statistic: 22.16 on 1 and 11 DF, p-value: 0.0006426

(b) Copy to the clipboard the plot of the fitted regression line and paste it into this Word document below.



Submit your file in the “Assignments” area of Canvas.