RUM quiz 1

All answers begin with the letter “R”:

1. What sickness is caused by the lack of vitamin D?
2. What is the longest word in modern English that doesn’t contain a vowel?
3. What US State is the location of the fictional town Quahog, home of the Griffin Family?
4 -8. Name all the girls from the pop-song Mambo no. 5 who have the letter R anywhere in their name.

Actual R-related questions:

1. Which one of these data sets is not in the r datasets package:
   a) ldeaths (Monthly Deaths from Lung Diseases in the UK)
   b) USArrests (Violent Crime Rates by US State)
   c) gapminder (Excerpt of the Gapminder data on life expectancy, GDP per capita, and population by country)
   d) HairEyeColor (Hair and Eye Color of Statistics Students)

2. If you get the error “Error in rcorr() : could not find function "rcorr"”, which package have you forgotten to load?

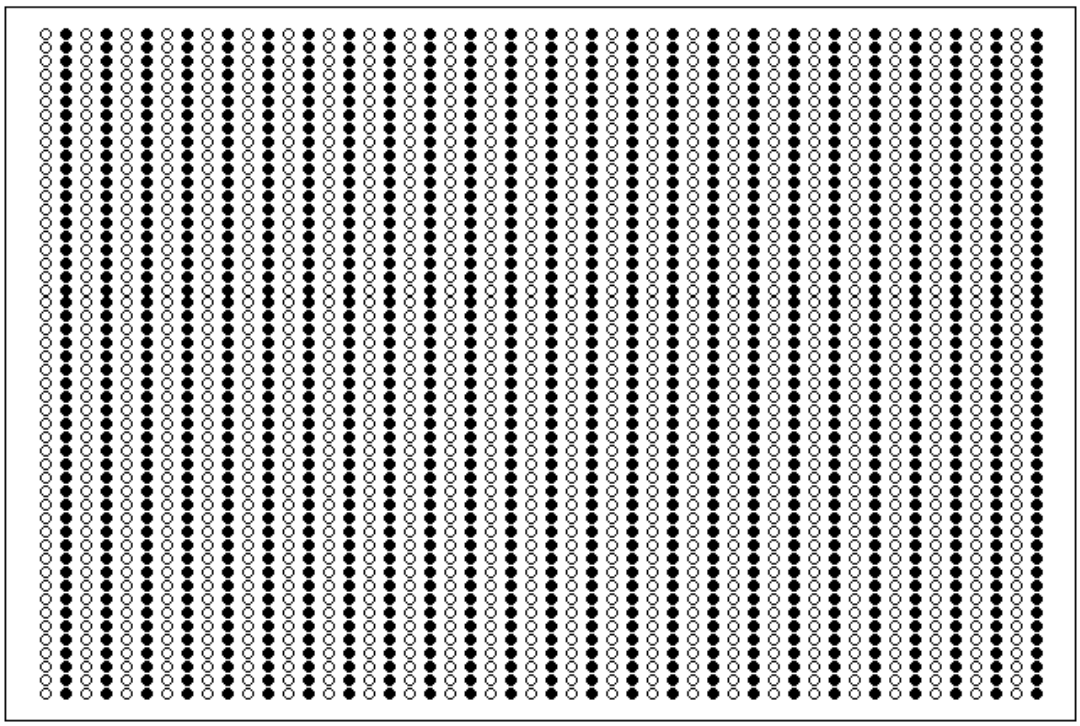
3. What colour is your chart background if you use +theme_excel() from the ggthemes package?

Some coding questions

4. Write code to reproduce these graphics:

a)

b)



5. Match the following codes on the left with their result on the right.

a	`10 %% 2`	`[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20`
b	`1:10 * 2`	`[1] 0`
c	`1:10%%2`	`[1] 1 0 1 0 1 0 1 0 1 0`
d	`1:10 * 2 %% 2`	`[1] 1`
e	`1:(10 * 2)`	`[1] 2 4 6 8 10 12 14 16 18 20`
f	`11 %% 2`	`[1] 0 0 0 0 0 0 0 0 0 0`

6. Which code will sort the mtcars data set by increasing number of cylinders first and then by decreasing weight?

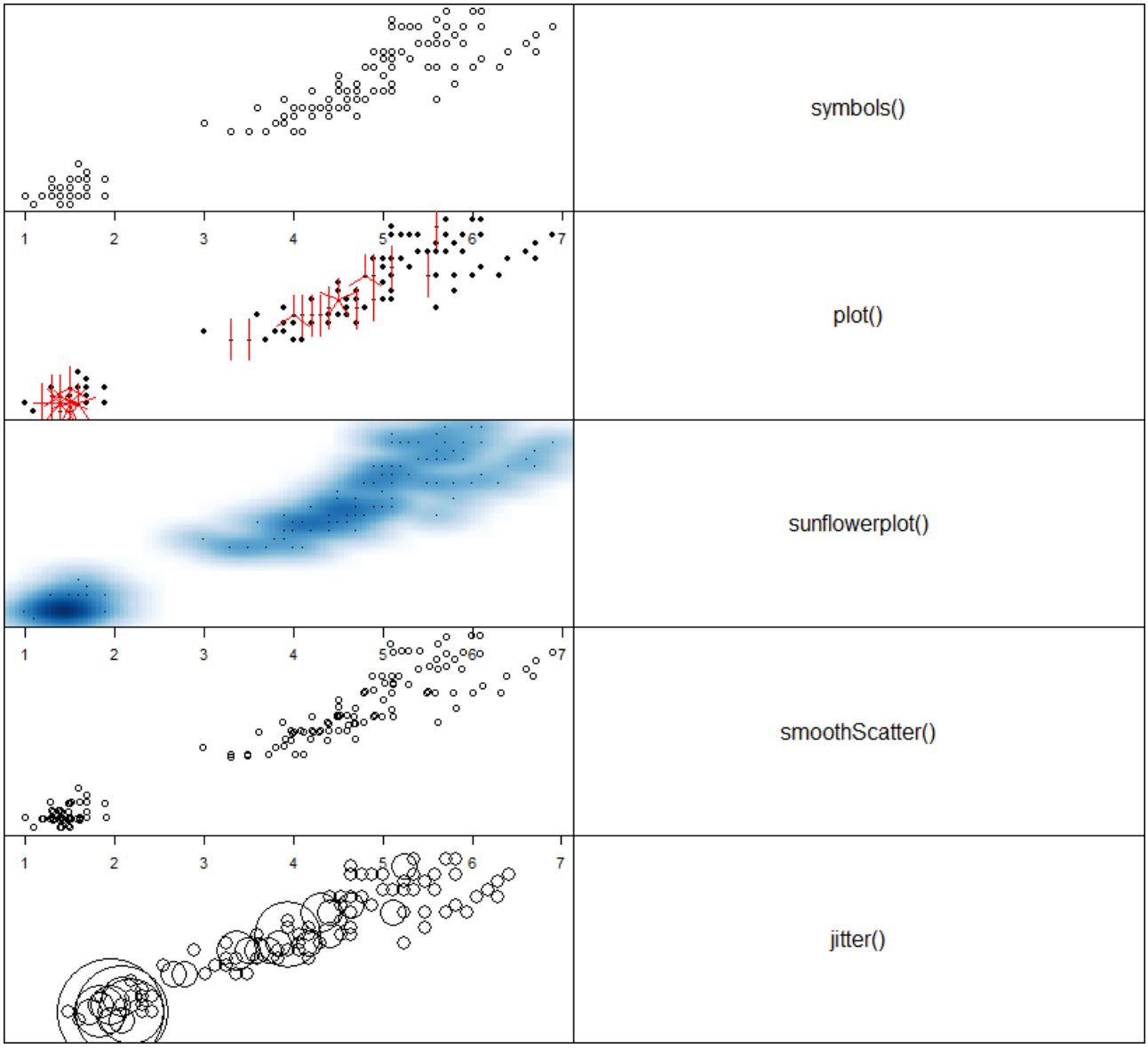
a) `mtcars[order(mtcars$cyl,mtcars$wt, decreasing = T),]`

b) `mtcars[sort(mtcars$cyl),][sort(mtcars$wt, decreasing = T),]`

c) `mtcars[order(mtcars$wt, decreasing = T),][order(mtcars$cyl[order(mtcars$wt, decreasing = T)]),]`

d) `mtcars[order(mtcars$cyl),][order(mtcars$wt, decreasing = T),]`

7. The following functions can be used to show density of points on a scatterplot. Match each to its example graphic plotted with the iris dataset.



8. Put these packages in order of release date:

devtools, dplyr, ggplot2, tidyr

9. Tie breaker

Make the best coloured version of plot 4b