

# Homework 1

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```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.0 --
```

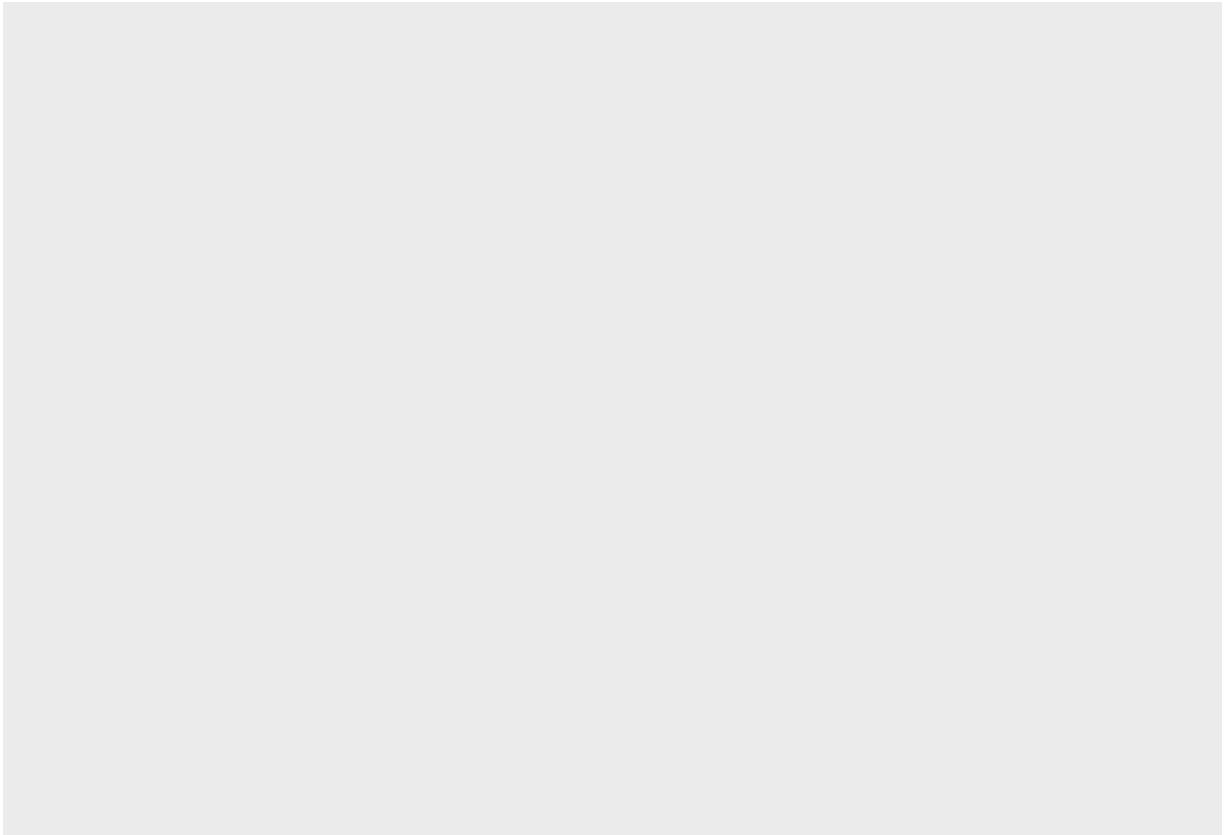
```
## v ggplot2 3.3.2      v purrr  0.3.4  
## v tibble  3.0.3      v dplyr  1.0.2  
## v tidyr   1.1.2      v stringr 1.4.0  
## v readr   1.3.1      v forcats 0.5.0
```

```
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()
```

```
data(mpg)
```

Question 1

```
ggplot(data=mpg)
```



We see an empty plot because this command is to use data located in mpg, so there is nothing plotted yet

Question 2

```
nrow(mpg)
```

```
## [1] 234
```

There are 234 rows in mpg

```
ncol(mpg)
```

```
## [1] 11
```

There are 11 columns in mpg

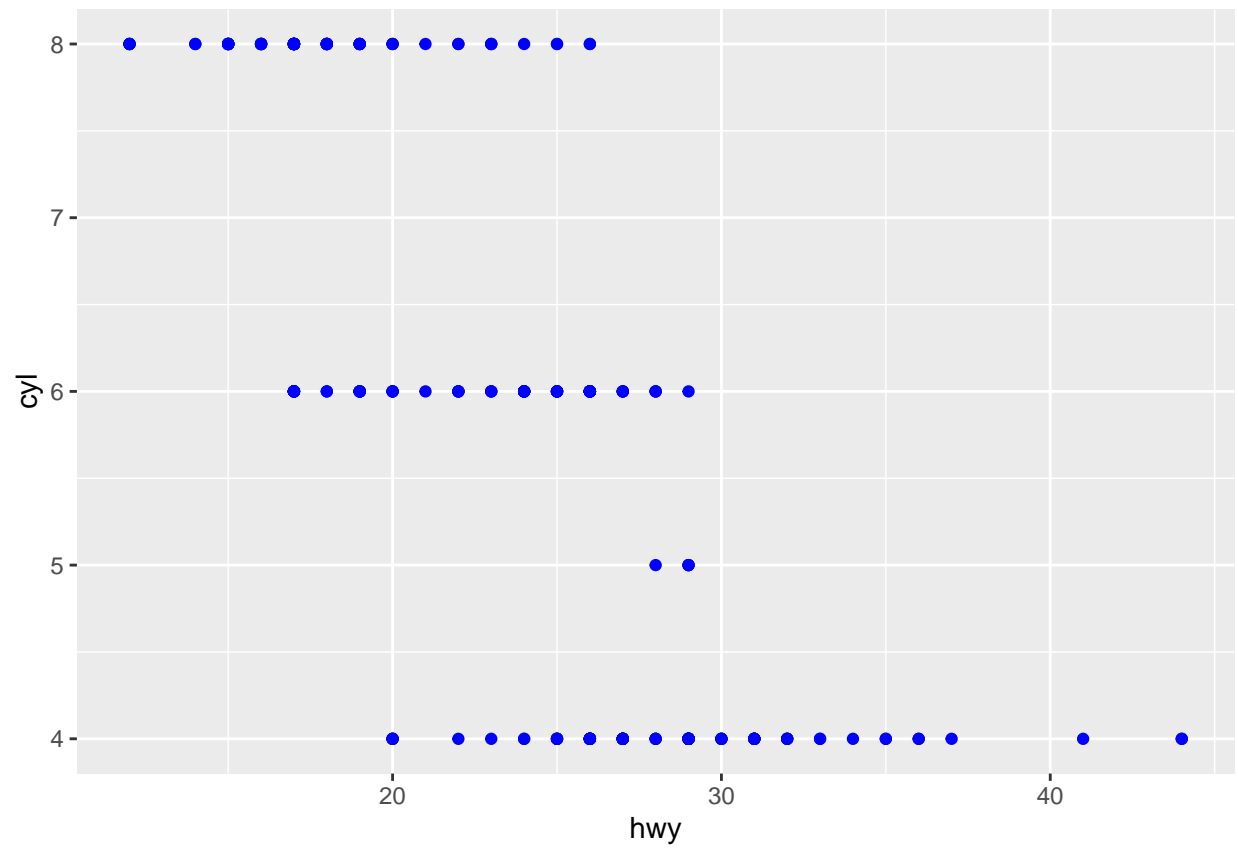
Question 3

```
?mpg
```

drv describes the type of drive train

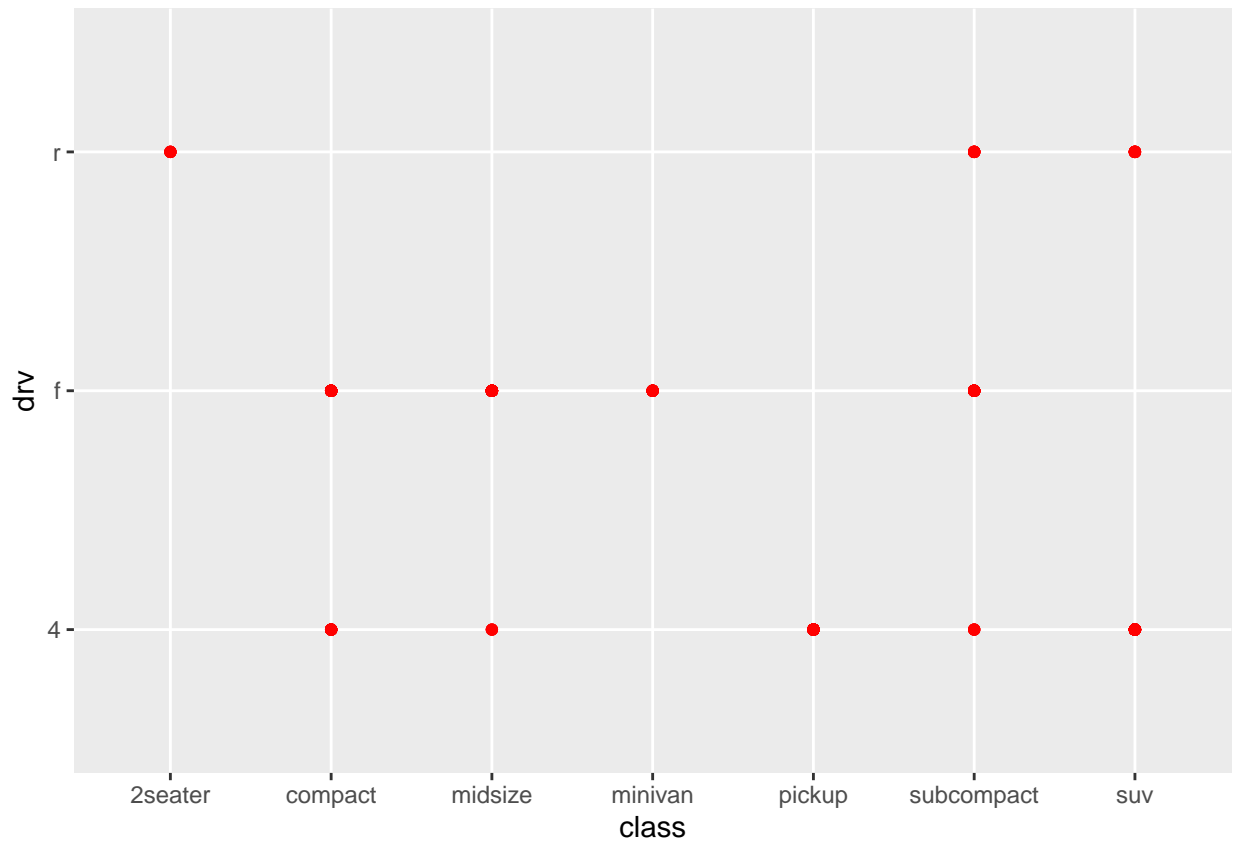
Question 4

```
ggplot(data=mpg)+
  geom_point(mapping=aes(x=hwy,y=cyl),color="blue")
```



Question 5

```
ggplot(data=mpg)+
  geom_point(mapping=aes(x=class,y=drv),color="red")
```



There is no relationships between these variables so the plot is not useful