ThomasMorrisHomework3

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Question 4: Will religious people get divorced less?

```
library(foreign)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
library(readxl)

raw_welfare <- read.spss(file= "Koweps_hpc10_2015_beta1.sav", to.data.frame = T)
```

```
## Warning in read.spss(file = "Koweps_hpc10_2015_beta1.sav", to.data.frame = T):
## Koweps_hpc10_2015_beta1.sav: Compression bias (0) is not the usual value of 100
```

```
welfare <- raw_welfare
welfare <- rename(welfare, sex = h10_g3, birth = h10_g4, marriage = h10_g10, religion = h10_g11, income
class(welfare$religion)
```
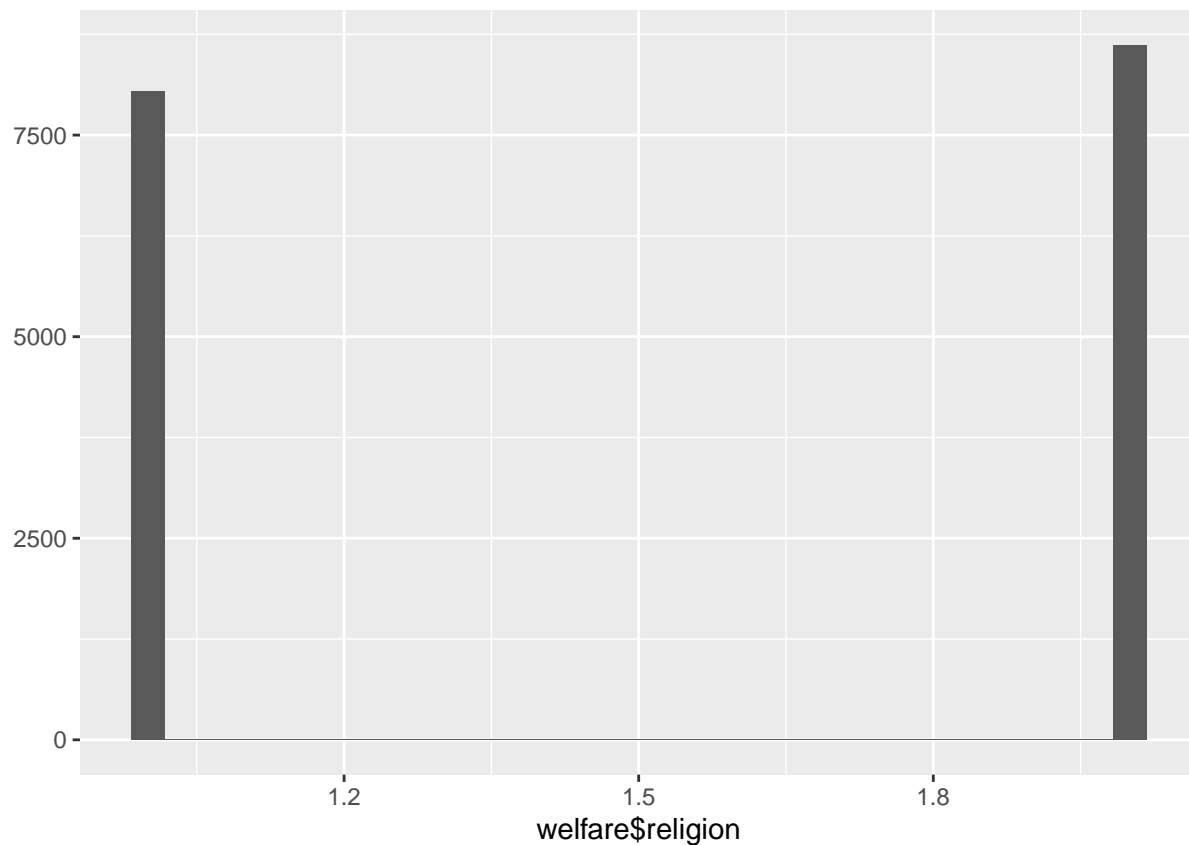
```
## [1] "numeric"
```

```
table(welfare$religion)
```

```
##
##    1    2
## 8047 8617
```

```
qplot(welfare$religion)
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

```r
class(welfare$marraige)
```

```
## [1] "NULL"
```

```r
table(welfare$marriage)
```

```
##
##    0    1    2    3    4    5    6
## 2861 8431 2117  712   84 2433   26
```
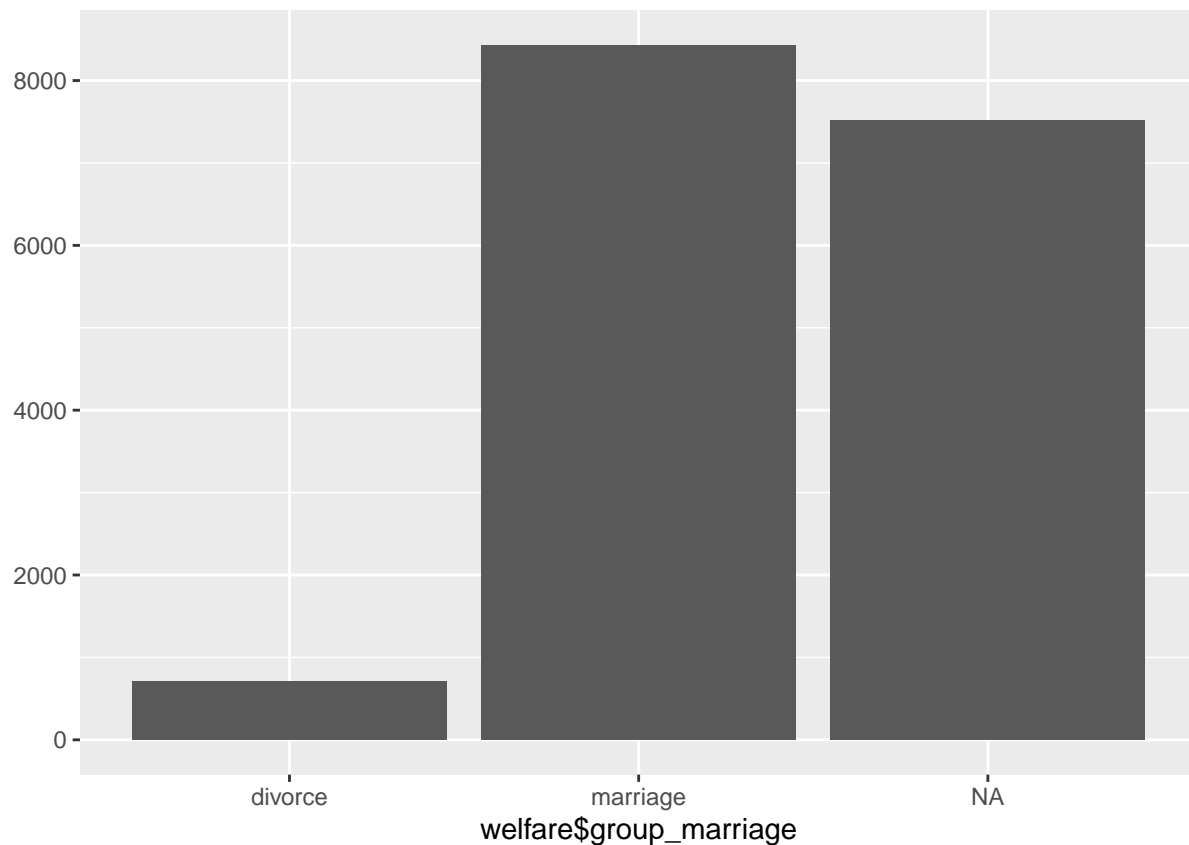
```r
welfare$group_marriage <- ifelse(welfare$marriage == 1, "marriage", ifelse(welfare$marriage == 3, "divor
table(welfare$group_marriage)
```
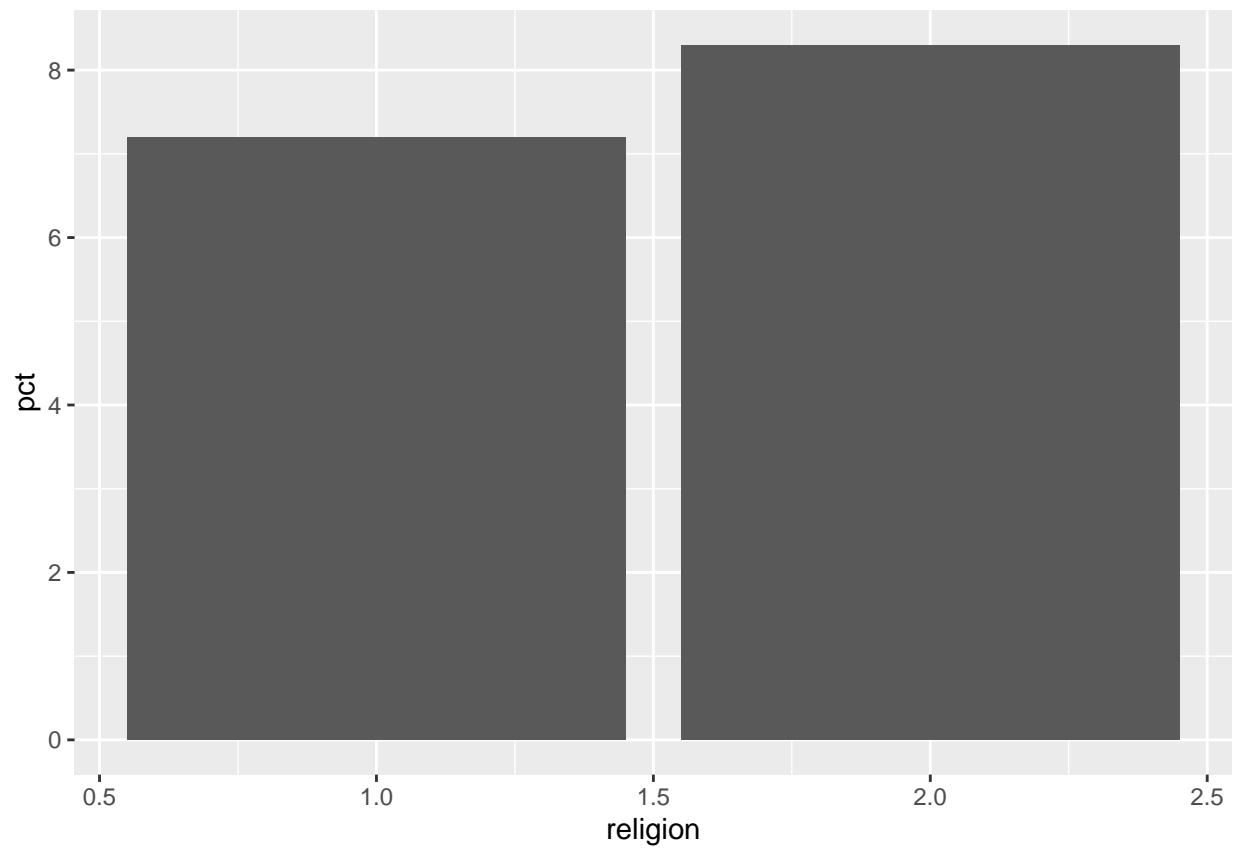
```
##
##  divorce marriage
##      712     8431
```

```r
table(is.na(welfare$group_marriage))
```

```
##
## FALSE  TRUE
##  9143  7521
```

```r
qplot(welfare$group_marriage)
```

```
religion_marriage <- welfare %>% filter(!is.na(group_marriage)) %>% group_by(religion, group_marriage) %>%
religion_marriage <- welfare %>% filter(!is.na(group_marriage)) %>% count(religion, group_marriage) %>%
divorce <- religion_marriage %>% filter(group_marriage == "divorce") %>% select(religion, pct)
ggplot(data = divorce, aes(x=religion, y=pct)) +geom_col()
```

##YES