

Worksheet 4A

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#1.

```
sframe <- data.frame(  
  Shoe_size = c(6.5, 9.0, 8.5, 8.5, 10.5, 7.0, 9.5, 9.0, 13.0, 7.5, 10.5, 8.5, 12.0, 10.5, 13.0, 11.5, 8.5,  
  Height = c(66.0, 68.0, 64.5, 65.0, 70.0, 64.0, 70.0, 71.0, 72.0, 64.0, 74.5, 67.0, 71.0, 71.0, 77.0, 72.0,  
  Gender = c("F", "F", "F", "F", "M", "F", "F", "F", "M", "F", "M", "F", "M", "M", "M", "M", "F", "F", "M",  
)  
sframe
```

##	Shoe_size	Height	Gender
## 1	6.5	66.0	F
## 2	9.0	68.0	F
## 3	8.5	64.5	F
## 4	8.5	65.0	F
## 5	10.5	70.0	M
## 6	7.0	64.0	F
## 7	9.5	70.0	F
## 8	9.0	71.0	F
## 9	13.0	72.0	M
## 10	7.5	64.0	F
## 11	10.5	74.5	M
## 12	8.5	67.0	F
## 13	12.0	71.0	M
## 14	10.5	71.0	M
## 15	13.0	77.0	M
## 16	11.5	72.0	M
## 17	8.5	59.0	F
## 18	5.0	62.0	F
## 19	10.0	72.0	M
## 20	6.5	66.0	F
## 21	7.5	64.0	F
## 22	8.5	67.0	M
## 23	10.5	73.0	M
## 24	8.5	69.0	F
## 25	10.5	72.0	M
## 26	11.0	70.0	M
## 27	9.0	69.0	M
## 28	13.0	70.0	M

a.

The data contains two sets of observations for shoe size, height, and gender.

b.

```
males <- sframe[sframe$Gender == "M", c("Shoe_size", "Height")]
females <- sframe[sframe$Gender == "F", c("Shoe_size", "Height")]
```

males

##	Shoe_size	Height
## 5	10.5	70.0
## 9	13.0	72.0
## 11	10.5	74.5
## 13	12.0	71.0
## 14	10.5	71.0
## 15	13.0	77.0
## 16	11.5	72.0
## 19	10.0	72.0
## 22	8.5	67.0
## 23	10.5	73.0
## 25	10.5	72.0
## 26	11.0	70.0
## 27	9.0	69.0
## 28	13.0	70.0

females

##	Shoe_size	Height
## 1	6.5	66.0
## 2	9.0	68.0
## 3	8.5	64.5
## 4	8.5	65.0
## 6	7.0	64.0
## 7	9.5	70.0
## 8	9.0	71.0
## 10	7.5	64.0
## 12	8.5	67.0
## 17	8.5	59.0
## 18	5.0	62.0
## 20	6.5	66.0
## 21	7.5	64.0
## 24	8.5	69.0