Module 2, Assigment 1

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5.

```
## [1] NA
```

6.

```
## [1] 64.94737
```

7.

```
## [1] 68 61 70 61 59
```

8.

```
## [1] "cat" "rat" "bat" "hat"
```

10.

```
## # A tibble: 6 x 11
##   group_id paddl~1 lengt~2 width~3 depth~4 spines insects damage locat~5 species
##      <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>  <chr>   <chr>  <chr>   <chr>
## 1        1       5       1       1   0.5   N      N       Most   Sixth   Opunti~
## 2        1       4       2       1   0.3   N      N       None   Eigth   Opunti~
## 3        3       7       2       1   0.125 Y      N       None   Sixth   Opunti~
## 4        2       9       2       3   0.5   N      N       All    Seventh Opunti~
## 5        7       9     2.5     2.5   0.5   Y      Y       None   Fifth   Opunti~
## 6        3       8     3.5     2.5   0.25  N      Y       All    Third   Opunti~
## # ... with 1 more variable: size <chr>, and abbreviated variable names
## #   1: paddle_id, 2: length_in, 3: width_in, 4: depth_in, 5: location
```
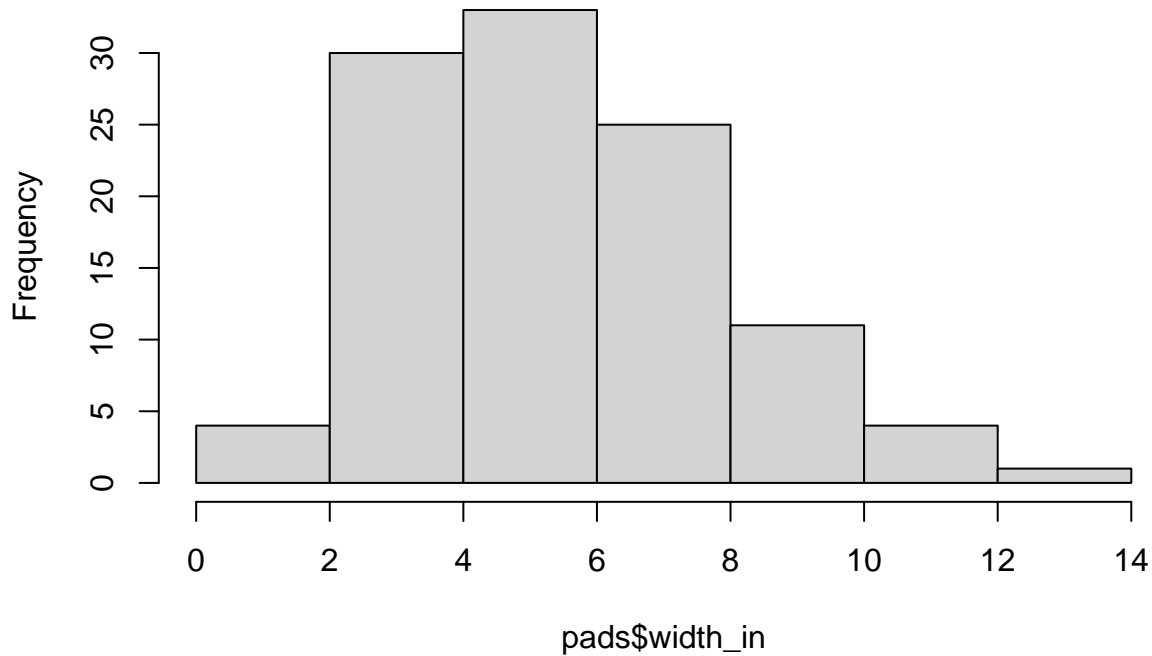
11.

```
## [1] 0.50625
```

12.

```
## [1] 0.5
```

13.

Histogram of pads$width_in

16.

```
## # A tibble: 60 x 11
##    group~1 paddl~2 lengt~3 width~4 depth~5 spines insects damage locat~6 species
##      <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>  <chr>   <chr>  <chr>   <chr>
## 1        1       5       1       1   0.5   N      N       Most   Sixth   Opunti~
## 2        1       4       2       1   0.3   N      N       None   Eigth   Opunti~
## 3        3       7       2       1   0.125 Y      N       None   Sixth   Opunti~
## 4        2       9       2       3   0.5   N      N       All    Seventh Opunti~
## 5        3       8     3.5     2.5   0.25  N      Y       All    Third   Opunti~
## 6        1       3       5     1.5   0.5   N      N       None   Fourth  Opunti~
## 7        1       1     5.5     2.5   0.5   N      N       None   Eigth   Opunti~
## 8        2       8       6       3   0.75  N      N       Some   Second  Opunti~
## 9        1      10       7       4   0.5   N      N       None   Fifth   Opunti~
## 10       3      10       7     5.5   1     N      Y       All    First   Opunti~
## # ... with 50 more rows, 1 more variable: size <chr>, and abbreviated variable
## #   names 1: group_id, 2: paddle_id, 3: length_in, 4: width_in, 5: depth_in,
## #   6: location


## # A tibble: 10 x 11
##    group~1 paddl~2 lengt~3 width~4 depth~5 spines insects damage locat~6 species
##      <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>  <chr>   <chr>  <chr>   <chr>
## 1        7       9     2.5     2.5   0.5   Y      Y       None   Fifth   Opunti~
## 2        7       4       4    3.75   0.5   Y      Y       Some   Sixth   Opunti~
## 3        7       5       4     3.8   0.25  Y      Y       None   Fifth   Opunti~
## 4        7       8       4     3.8   0.5   Y      Y       Some   Fifth   Opunti~
## 5        7      10       4     3.5   0.25  Y      Y       Most   First   Opunti~
## 6        7       2    4.25     3.5   0.25  Y      Y       None   Seventh Opunti~
```

```
## 7        7      1    4.5    4.5    0.25 Y      Y       Some    Seventh Opunti~
## 8        7      6    5      4      0.25 Y      Y       None    Third   Opunti~
## 9        7      7    5      4.5    0.5  Y      Y       Some    Sixth   Opunti~
## 10       7      3    7.5    5      0.75 Y      Y       Some    Fourth  Opunti~
## # ... with 1 more variable: size <chr>, and abbreviated variable names
## #   1: group_id, 2: paddle_id, 3: length_in, 4: width_in, 5: depth_in,
## #   6: location
```

17.

```
## [1] 8.654167
```

```
## [1] 4.475
```

18.

```
## [1] 2.641781
```

```
## [1] 1.271755
```

19.

```
## [1] 30.52612
```

```
## [1] 28.41911
```