

Module 1 Assignment 3

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2025-02-17

1.

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

2.

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

3.

```
## [1] 63 60 65 NA 61 61 59 64 63 63 65 64 63 65
```

4.

```
## [1] "Mystery" "Hazel" "Spud" "Pancho"
```

5.

```
## [1] "Spud"
```

6.

```
## [1] "Spud"
```

8.

```
## X group_id paddle_id length_in width_in depth_in spines insects damage
## 1 1 1 12.5 8.5 0.50 Y Y Some
## 2 2 1 12.3 8.0 0.50 Y Y Some
## 3 3 1 14.5 11.0 0.70 Y Y Some
## 4 4 1 10.5 7.0 0.75 Y Y Some
## 5 5 1 8.5 6.5 0.20 Y Y Some
## 6 6 1 14.0 13.0 1.20 Y N Some
## location group_members temp_F
## 1 Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani 61
## 2 Fifth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani 61
## 3 Fifth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani 61
## 4 Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani 61
## 5 Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani 61
```

```
## 6      Third Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
##              species      size
## 1 Opuntia engelmannii Medium
## 2 Opuntia engelmannii Medium
## 3 Opuntia engelmannii Medium
## 4 Opuntia engelmannii Medium
## 5 Opuntia engelmannii Medium
## 6 Opuntia engelmannii Medium
```

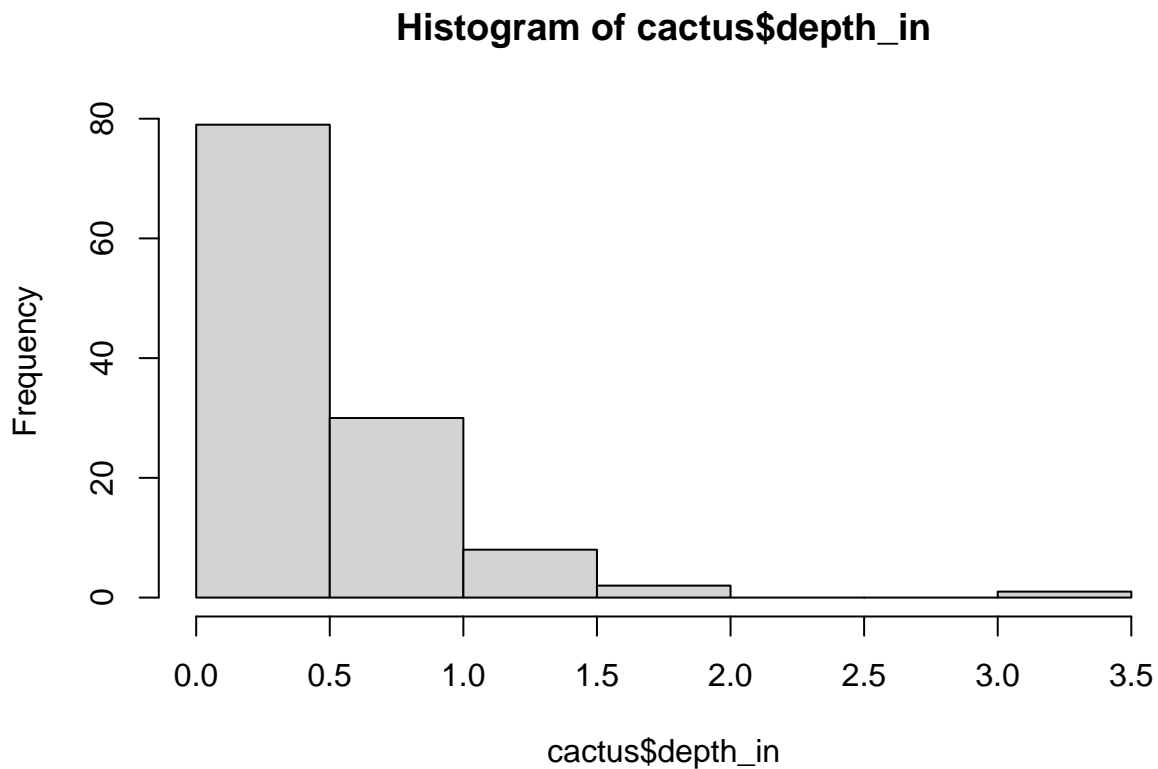
9.

```
## [1] 9.809542
```

10.

```
## [1] 9.8
```

11.



13.

```
## [1] "Most" "Some" "Some" "Some" "Some" "Some" "Some" "All" "Most" "Some" "None"
## [11] "Most" "Most" "None" "None" "None" "Most" "Most" "None" "None" "None" "Some"
## [21] "Some" "Some" "Some" "Most" "Some" "Some" "Some" "Some" "Some" "Some" "None"
## [31] "None" "Some" "Most" "Some" "None" "Some" "Some" "Some" "Some" "Some" "Some"
## [41] "Some" "Some" "Some" "Some" "None" "None" "Some" "None" "None" "None" "None"
## [51] "Some" "None" "Some" "Some" "Some" "None" "Some" "None" "None" "None" "None"
## [61] "None" "None" "Some" "None" "None"
```

14. Just a note that I am printing the first 10 rows of each data frame, not necessarily the entire thing, to include in the answer key.

```
##      X group_id paddle_id length_in width_in depth_in spines insects damage
## 41 41         5         1      8.5     4.5     0.50      N      Y   Some
## 42 42         5         2      7.5     4.5     0.50      N      N   None
## 43 43         5         3     10.0     5.0     0.50      N      Y   Most
## 44 44         5         4     12.0     6.5     0.50      N      Y   Most
## 45 45         5         5      8.5     4.5     0.25      N      N   None
## 46 46         5         6      9.5     5.0     0.50      N      N   None
## 47 47         5         7     10.0     6.5     0.50      N      N   None
## 48 48         5         8      7.5     4.0     0.50      N      Y   Most
## 49 49         5         9      3.5     3.0     0.50      N      Y   Most
## 50 50         5        10      8.0     3.0     0.25      N      N   None
##      location                                group_members temp_F
## 41   Third Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 42   Third Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 43  Fourth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 44   Sixth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 45   Fifth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 46   Sixth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 47   Sixth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 48   Sixth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 49  Seventh Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
## 50   Eighth Delaney Jacobs, Katherine Meade, Isobel Manar-Fike      61
##      species size
## 41 Opuntia ficus-indica Large
## 42 Opuntia ficus-indica Large
## 43 Opuntia ficus-indica Large
## 44 Opuntia ficus-indica Large
## 45 Opuntia ficus-indica Large
## 46 Opuntia ficus-indica Large
## 47 Opuntia ficus-indica Large
## 48 Opuntia ficus-indica Large
## 49 Opuntia ficus-indica Large
## 50 Opuntia ficus-indica Large

##      X group_id paddle_id length_in width_in depth_in spines insects damage
## 1     1         1         1     12.5     8.5     0.50      Y      Y   Some
## 2     2         1         2     12.3     8.0     0.50      Y      Y   Some
## 3     3         1         3     14.5     11.0    0.70      Y      Y   Some
## 4     4         1         4     10.5     7.0     0.75      Y      Y   Some
## 5     5         1         5      8.5     6.5     0.20      Y      Y   Some
## 6     6         1         6     14.0     13.0    1.20      Y      N   Some
## 7     7         1         7     12.0     14.0    2.00      Y      Y   Some
## 8     8         1         8      9.0     7.5     1.00      Y      Y   Some
## 9     9         1         9     15.0     11.7    1.20      Y      Y   Some
## 10    10        1        10     12.8     10.0    0.90      Y      Y   Some
##      location                                group_members temp_F
## 1    Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 2     Fifth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 3     Fifth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 4    Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 5    Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
```

```
## 6      Third Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 7      First Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 8      Third Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 9      Third Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
## 10     Fourth Emilio Reyes,Megan Melendez,Paige Fuss, Madison Tani      61
##              species      size
## 1  Opuntia engelmannii Medium
## 2  Opuntia engelmannii Medium
## 3  Opuntia engelmannii Medium
## 4  Opuntia engelmannii Medium
## 5  Opuntia engelmannii Medium
## 6  Opuntia engelmannii Medium
## 7  Opuntia engelmannii Medium
## 8  Opuntia engelmannii Medium
## 9  Opuntia engelmannii Medium
## 10 Opuntia engelmannii Medium
```

15.

```
## [1] 5.242917
```

```
## [1] 8.341
```

16.

```
## [1] 1.782769
```

```
## [1] 2.256842
```