

Module 1 Assignment 3

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2026-02-16

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.

```
##   group_id paddle_id length_cm width_cm depth_cm spines insects damage location
## 1         1         1     19.7    12.7     2.0      N      N   None    First
## 2         1         2     20.0    14.0     1.0      N      N   None    Second
## 3         1         3     23.0    15.0     1.5      N      N   Some    Third
## 4         1         4     22.0    11.0     1.0      N      N   None    Fourth
## 5         1         5     16.5     9.0     0.8      N      N   None    Fifth
## 6         1         6     19.0    11.5     0.9      N      Y   Some    Fourth
```

```
##   group_members temp_F      species size
## 1 DC, Hali Nahush    64 Opuntia ficus-indica Large
## 2 DC, Hali Nahush    64 Opuntia ficus-indica Large
## 3 DC, Hali Nahush    64 Opuntia ficus-indica Large
## 4 DC, Hali Nahush    64 Opuntia ficus-indica Large
## 5 DC, Hali Nahush    64 Opuntia ficus-indica Large
## 6 DC, Hali Nahush    64 Opuntia ficus-indica Large
```

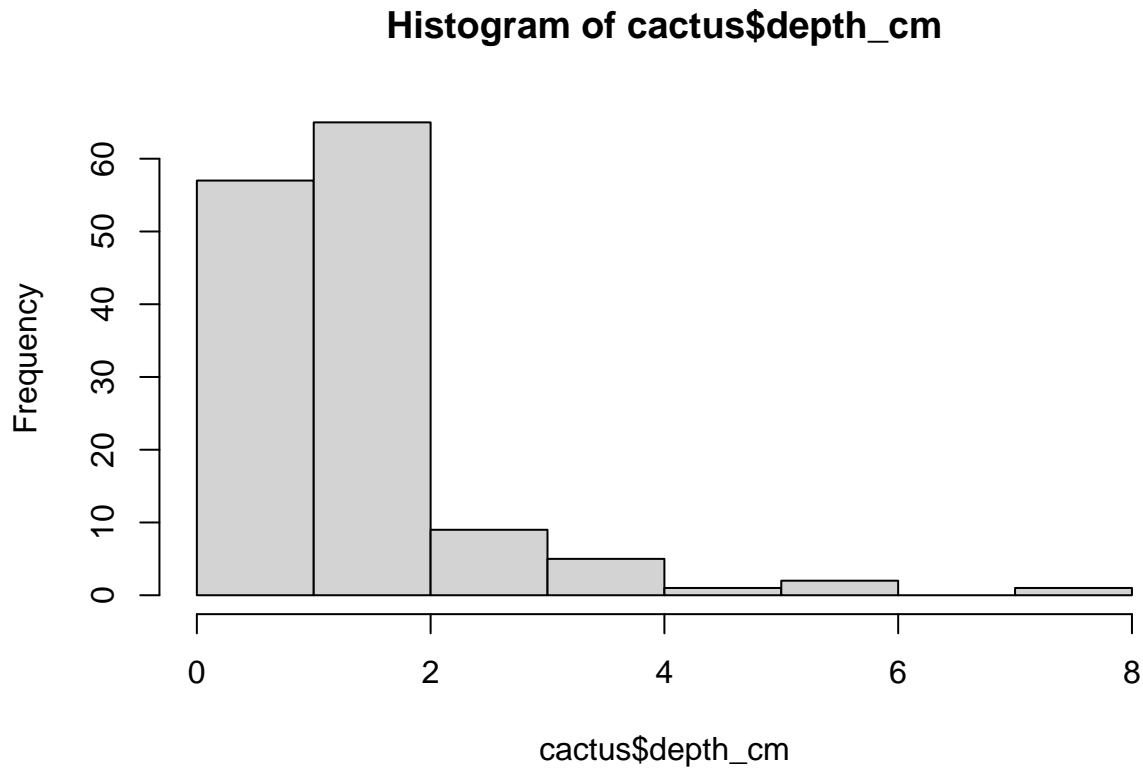
9.

```
## [1] 23.42186
```

10.

```
## [1] 23.4
```

11.



13.

```
## [1] 2.000 1.000 1.500 1.000 0.800 0.900 1.400 1.300 0.500 0.500 0.400 0.500
## [13] 0.800 0.700 2.100 0.800 4.100 0.600 0.800 0.900 1.000 3.500 0.700 1.000
## [25] 0.500 0.600 1.000 0.500 1.000 1.000 0.635 0.635 2.000 1.000 1.000 1.500
## [37] 3.500 1.500 1.250 0.750 1.500 1.000 1.000 2.000 1.000 1.500 1.000 1.000
## [49] 1.500 1.500 1.700 0.500 0.800 1.400 1.500 1.000 1.300 0.800 1.400 1.300
## [61] 0.500 1.400 0.500 0.500 0.800 0.400 0.300 0.600 0.300 1.200 1.400 0.900
## [73] 1.100 0.600 0.400 0.800 1.000 1.200 0.600 5.715 7.620 5.080 3.810 3.810
## [85] 2.540 1.270 1.270 1.270 1.905
```

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.

```
##   group_id paddle_id length_cm width_cm depth_cm spines insects damage
## 1      1         1    19.7    12.7      2.0      N      N    None
## 2      1         2    20.0    14.0      1.0      N      N    None
## 3      1         3    23.0    15.0      1.5      N      N   Some
## 4      1         4    22.0    11.0      1.0      N      N    None
## 5      1         5    16.5     9.0      0.8      N      N    None
## 6      1         6    19.0    11.5      0.9      N      Y   Some
## 7      1         7    27.2    15.5      1.4      N      N   Some
## 8      1         8    27.2    12.5      1.3      N      N    None
## 9      1         9    22.0    11.0      0.5      N      N    None
## 10     1        10    23.0    12.5      0.5      N      N    None
##   location  group_members temp_F      species  size
## 1 First DC, Hali Nahush    64 Opuntia ficus-indica Large
## 2 Second DC, Hali Nahush    64 Opuntia ficus-indica Large
```

```

## 3      Third DC, Hali Nahush      64 Opuntia ficus-indica Large
## 4      Fourth DC, Hali Nahush     64 Opuntia ficus-indica Large
## 5      Fifth DC, Hali Nahush      64 Opuntia ficus-indica Large
## 6      Fourth DC, Hali Nahush     64 Opuntia ficus-indica Large
## 7      Sixth DC, Hali Nahush      64 Opuntia ficus-indica Large
## 8      Seventh DC, Hali Nahush    64 Opuntia ficus-indica Large
## 9      Sixth DC, Hali Nahush      64 Opuntia ficus-indica Large
## 10     Seventh DC, Hali Nahush    64 Opuntia ficus-indica Large

##      group_id paddle_id length_cm width_cm depth_cm spines insects damage
## 51         6         1      29.0    27.0     2.5      Y      N    Most
## 52         6         2      32.0    22.5     2.5      Y      N    Some
## 53         6         3      28.5    21.0     3.0      Y      N    Some
## 54         6         4      28.0    20.0     1.5      Y      Y    Some
## 55         6         5      21.0    17.0     1.5      Y      Y    Some
## 56         6         6      32.0    30.0     3.5      Y      Y    Some
## 57         6         7      30.0    20.0     2.0      Y      Y    Some
## 58         6         8      30.0    23.0     1.5      Y      Y    Some
## 59         6         9      22.5    17.5     1.5      Y      Y    Some
## 60         6        10      37.5    29.0     3.0      Y      Y    Some

##      location      group_members temp_F      species      size
## 51    First Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 52    Second Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 53    Third Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 54    Fourth Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 55    Fourth Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 56    Second Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 57    Fourth Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 58    Fourth Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 59    Sixth Nancy, Katie, Abby      64 Opuntia engelmannii Medium
## 60    Third Nancy, Katie, Abby      64 Opuntia engelmannii Medium

15.

## [1] 11.16006

## [1] 20.86

16.

## [1] 3.682151

## [1] 4.266901

```