

# Module 1 Assignment 3

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2024-09-24

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_in width_in depth_in spines insects damage location
## 1         1         1    7.25    2.50    0.25      N        N   None    Eighth
## 2         1         2    7.50    2.25    0.25      N        N   None   Seventh
## 3         1         3    9.25    4.00    0.50      N        Y   None    Sixth
## 4         1         4    9.50    3.50    0.25      N        N   None    Fifth
## 5         1         5    8.00    5.50    0.50      N        N   Some    Fourth
## 6         1         6    4.50    1.75    0.25      N        N   None    Fifth
##               species    size
## 1 Opuntia ficus-indica Medium
## 2 Opuntia ficus-indica Medium
## 3 Opuntia ficus-indica Medium
## 4 Opuntia ficus-indica Medium
## 5 Opuntia ficus-indica Medium
## 6 Opuntia ficus-indica Medium
```

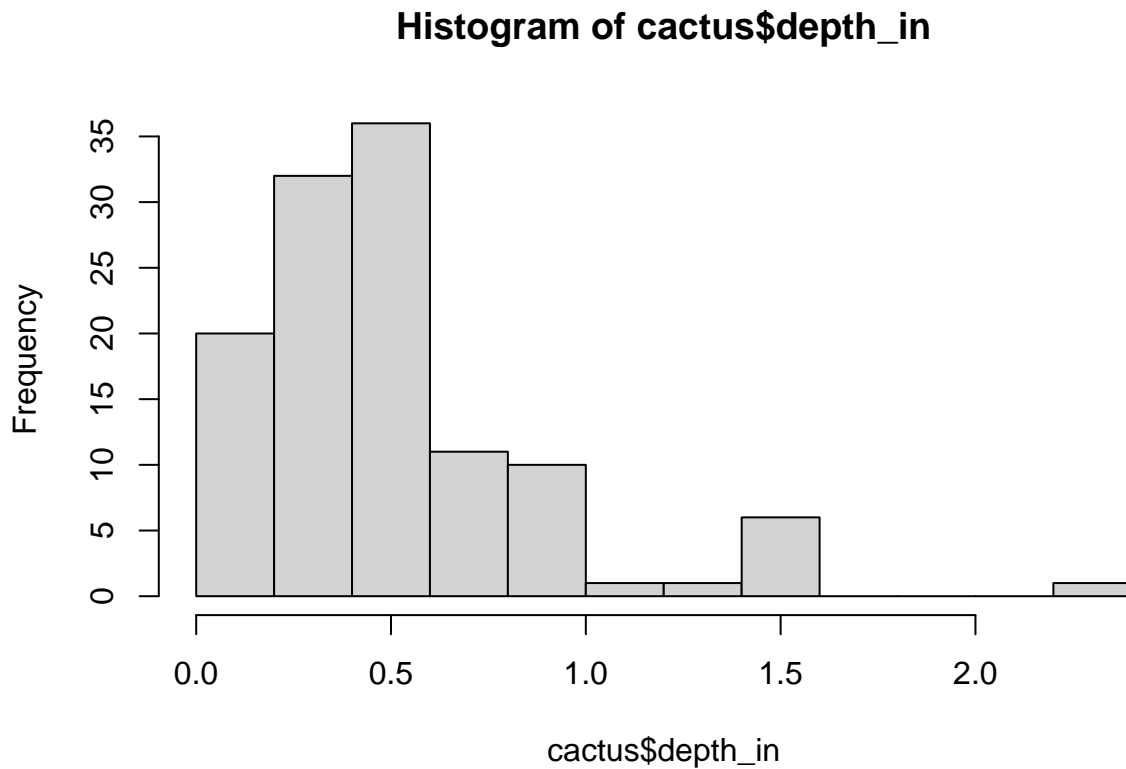
9.

```
## [1] 9.123729
```

10.

```
## [1] 9.1
```

11.



13.

```
## [1] "Eighth" "Seventh" "Sixth" "Fifth" "Fourth" "Fifth"
## [7] "Fourth" "Fourth" "Fourth" "Seventh" "Fifth" "Fifth"
## [13] "Second" "Fifth" "Sixth" "Third" "Fourth" "Third"
## [19] "Second" "Second" "Ninth" "Seventh" "Ninth" "Sixth"
## [25] "Fifth" "Sixth" "Sixth" "Eighth" "Seventh" "Sixth"
## [31] "Fifth" "Fourth" "Fourth" "Fifth" "Seventh" "Sixth"
## [37] "Eighth" "Ninth" "Seventh" "Fourth" "Sixth" "Ninth"
## [43] "Eleventh" "Tenth" "Ninth" "Eighth" "Seventh" "Sixth"
## [49] "Second" "Third" "First" "Eleventh" "Tenth" "Tenth"
## [55] "Tenth" "Tenth" "Ninth" "Ninth" "Eighth" "Seventh"
## [61] "Sixth"
```

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_in	width_in	depth_in	spines	insects	damage
## 1	1	1	7.25	2.50	0.25	N	N	None
## 2	1	2	7.50	2.25	0.25	N	N	None
## 3	1	3	9.25	4.00	0.50	N	Y	None
## 4	1	4	9.50	3.50	0.25	N	N	None
## 5	1	5	8.00	5.50	0.50	N	N	Some
## 6	1	6	4.50	1.75	0.25	N	N	None
## 7	1	7	9.25	4.50	0.25	N	N	Some
## 8	1	8	7.50	3.50	0.50	N	N	Some
## 9	1	9	6.00	2.50	0.25	N	N	None
## 10	1	10	7.00	3.00	0.25	N	Y	None

##	location	species	size
## 1	Eigth	Opuntia ficus-indica	Medium
## 2	Seventh	Opuntia ficus-indica	Medium
## 3	Sixth	Opuntia ficus-indica	Medium
## 4	Fifth	Opuntia ficus-indica	Medium
## 5	Fourth	Opuntia ficus-indica	Medium
## 6	Fifth	Opuntia ficus-indica	Medium
## 7	Fourth	Opuntia ficus-indica	Medium
## 8	Fourth	Opuntia ficus-indica	Medium
## 9	Fourth	Opuntia ficus-indica	Medium
## 10	Seventh	Opuntia ficus-indica	Medium

##	group_id	paddle_id	length_in	width_in	depth_in	spines	insects	damage
## 11	2	1	10.0	10.5	1.0	Y	N	Most
## 12	2	2	10.5	9.0	1.5	Y	N	Most
## 13	2	3	13.5	6.5	0.5	Y	N	None
## 14	2	4	10.0	10.5	1.5	Y	N	Most
## 15	2	5	16.0	5.5	0.5	Y	N	None
## 16	2	6	10.0	7.5	0.5	Y	Y	Some
## 17	2	7	11.0	7.5	0.5	Y	Y	All
## 18	2	8	12.0	8.0	0.5	Y	Y	Some
## 19	2	9	11.0	7.5	0.5	Y	Y	Some
## 20	2	10	11.0	9.0	0.5	Y	Y	Some

##	location	species	size
## 11	First	Opuntia engelmannii	Medium
## 12	Second	Opuntia engelmannii	Medium
## 13	Third	Opuntia engelmannii	Medium
## 14	Fourth	Opuntia engelmannii	Medium
## 15	Fifth	Opuntia engelmannii	Medium
## 16	Sixth	Opuntia engelmannii	Medium
## 17	Fourth	Opuntia engelmannii	Medium
## 18	Fifth	Opuntia engelmannii	Medium
## 19	Sixth	Opuntia engelmannii	Medium
## 20	Sixth	Opuntia engelmannii	Medium

15.

## [1] 4.411207

## [1] 8.32875

16.

```
## [1] 1.528388
```

```
## [1] 2.12681
```