

Week 6 Reading Questions

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Q1: In a short paragraph, describe a baseline scenario regarding seed predation. In the end, state the null hypothesis for seed predation.

Baseline scenario: Looking at the species *Polyscias fulva* and *Pseudospondias microcarpa*, the scenario is looking into if any seeds were or were not taken. I want to know which seeds are taken or not taken. I predict that the *Polyscias fulva* seeds will eat be taken then the other.

Null hypothesis: *Pseudospondias microcarpa* were less eaten than the *Polyscias fulva*, therefore, the null hypothesis will be rejected.

Q2: Paste the R code you used to complete the table and calculate the rates.

```
rm(list = ls())

pol_n_predation = 26
pol_n_no_predation = 184
pol_n_total = 210
pol_predation_rate = (pol_n_predation / pol_n_total)

psd_n_predation = 25
psd_n_no_predation = 706
psd_n_total = 731
psd_predation_rate = (psd_n_predation / psd_n_total)

print(
  paste0(
    "The seed predation rate for Polyscias fulva is: ",
    round(pol_predation_rate, digits = 3)))

print(
  paste0(
    "The seed predation rate for Pseudospondias microcarpa is: ",
    round(psd_predation_rate, digits = 3)))
```

Q3: Show your table with the missing values filled in.

Species	Any Taken	Non Taken	N	Predation Rate
Polyscias fulva (pol)	26	184	210	.124

Pseudospondias microscarpa (psd)	25	706	731	.034
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Q4: Report the seed ratio of seed predation proportions and show the R code you used to do the calculation.

```
predation_rate <- pol_predation_rate / psd_predation_rate
print(predation_rate)
```

the seed ratio is 3.62019