

# Presentations - HW Questions?

(35)

<u>Environment</u>	<u>Hatched</u>	<u>Not Hatched</u>	<u>Total</u>
Cold	16	11	27
Neutral	38	18	56
Hot	75	29	104
Totals	129	58	187

PROP.  
Hatched

$$16/27 = .59$$

$$38/56 = .679$$

$$75/104 = .721$$

$H_0$ : There is no difference in the proportion of eggs that hatch based on water temperature.

$H_a$ : There is a difference . . . . .

$$\alpha = 0.05.$$

Use a  $\chi^2$  test for homogeneity.

Conditions: Random ✓ stated

Independent: There are more than 1870 python eggs.

Large Samples  $n_j$  - Is each

EXPECTED COUNT  $\geq 5$ ?

	Hot	Not
Cold	18.63	8.37
Neutral	38.63	17.37
Hot	71.74	32.26

All  $\geq 5$  so  
Large Sample  
Size Met.

The conditions are met.

$$p\text{-value} = 0.4267$$

$$df = 2$$

Since  $p$ -value is greater than 0.05,  
we fail to reject  $H_0$ . We do not  
have enough evidence to conclude  
that water temp has an effect on  
hatching rate for pythons.

1. Error Analysis } due  
On 10 MC ) Fri.  
No later  
than  
4-8!

2. Finish Reading Guide  
for Ch 11

3. Catch up on HW Ch 11