

16.51 continued

$$H_0: \mu_1 = \mu_2 = \mu_3 = \mu_4 = \mu_5$$

H_a : Not all means are =

ANOVA (L_1, L_2, L_3, L_4, L_5)

$$p\text{-value} = .103 \neq .05 = \alpha$$

Do not reject H_0

No, the data is not sufficient to show a difference in means

16.49 (pg 716)

Copepods and Diet

Diatoms	Bacteria	Microalgae
426	303	277
467	301	324
438	293	302
497	328	272

At 5% does there appear to be a difference in mean # copepods based on diet?

$$H_0: \mu_1 = \mu_2 = \mu_3$$

H_a : Not all means are =

$$p\text{-value} = .0000 \leq .05 = \alpha$$

ANOVA (L_1, L_2, L_3)

$$p\text{-value} = 9.29 \text{E-}6 = .00000929$$

reject H_0

Yes, it does appear that there's a difference in # of copepods based on diet