

8.8

Source	df	SS	MS	F
Groups	3	960	320	2
Error	36	5760	160	
Total		6720		

p-value = .131
= 13.1%

$n_1 = n_2 = n_3 = n_4 = 10$

$F = \frac{MSG}{MSE}$

8.24

Group	n	Mean	SD
1	16	4.8	1.3
2	16	3.4	1.6
3	16	3.2	1.2
Overall		3.8	

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

$$H_A: \text{not } H_0$$

$$F = \frac{16(4.8 - 3.8)^2 + 16(3.4 - 3.8)^2 + 16(3.2 - 3.8)^2}{2}$$

$$15(1.3)^2 + 15(1.6)^2 + 15(1.2)^2$$

45

$$= \frac{12.16}{1.897} = 6.4 \Rightarrow p\text{-value} = .0036 \Rightarrow \text{reject } H_0!$$