FEprep-Fall2024 **December 12, 2024** 

## **STATISTICS**

- 1. Computing your Final Grade
- 2. Topics since Test 2
- 3. Format of Final Exam

Class Notes: Prof. G. Battaly, Westchester Community College, NY





$$FG = \frac{2}{3}CA + \frac{1}{3}FE$$

$$3 FG = 2 CA + FE$$

Use to determine what grade you need on the FE to get the grade you would like in the course, FG.

$$FE = 3(85) - 2(82) = 91$$

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## FE = 3 FG - 2 CA

eg: If your CA is 82 and you would like a B+, then:

You will need FE = 3(85) - 2(82) = 91 on the Final Exam

eg: If your CA is 84 and you would like a B+, then:

You will need FE = 3(85) - 2(84) = 87 on the Final Exam

eg: If your CA is 84 and you are happy with a B, then:

You will need FE = 3(80) - 2(84) = 72 on the Final Exam to maintain your B.

## FINAL EXAM



# **CONTENT:** Focus on topics since Test 2

2 samples	10.2	Pooled-t test
	10.3	Non pooled-t test
	10.4	Mann-Whitney
	10.5	Paired-t Test
distribution	13.2	Chi-Squared Test
2 variables: predictor, response	14.2	Linear Regression Equation
	x 14.3	Coef of Determination
	14.4	Correlation Coefficient
3+ samples	16.3	ANOVA

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#### FINAL EXAM REQUIREMENTS:



## MECHANICS: Use textbook and calculator

1. Part 1 (40 pts) is online, available all day on Thursday, 12/19, and due by the end of day (11:59 pm). (Timed)

2. Part 2 (60 pts) in class (in person) on Thursday, 12/19. Complete 4 of the 5 problems.

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#### FINAL EXAM FORMAT

**PART 1**: Answer 16 questions of 19

Short Answer: 40 pts

Multiple Choice, Select all Correct, @ 2.5 pt each

True/False, Matching

#### Answer 4 questions of 5 PART 2:

Word Problems:

60 pts Which Procedure?

@ 15 pt each Assumptions, Hypotheses

Sketch with significance level, df

Test Statistic: Equation, substitution, value, table\*

Extras: df, Differences (paired-t),

Expected Values (Chi-squared)

p-value (or  $M_{\tau}$ ), Reject or not

Conclusion

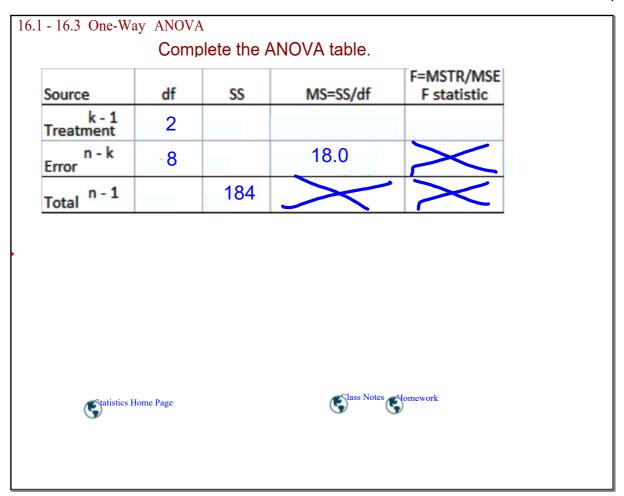
Or: Regression Equation - write equation with values for slope and intercept Scale axes! useless w/o scale For prediction, write equation, substitution, ans

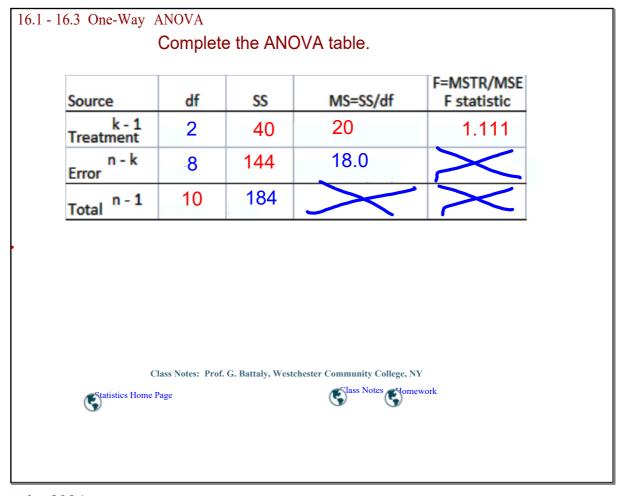
\*ANOVA table

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#### 16.1 - 16.3 One-Way ANOVA

#### Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
k - 1 Treatment		37.84		
n - k Error	20			
Total n - 1	24	173.04		

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#### 16.1 - 16.3 One-Way ANOVA

### Complete the ANOVA table.

Source	df	SS	MS=SS/df	F=MSTR/MSE F statistic
k - 1 Treatment	4	37.84	9.46	1.40
n - k Error	20	135.2	6.76	
Total n - 1	24	173.04		

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