

# Test 2 Review (Encore!)

Correlation & Linear  
Regression

# Data

Student	Days Present (x)	GPA (y)
1	180	4
2	150	2.5
3	170	3.75
4	165	3.3
5	185	3.75
6	180	2.1
7	140	2.2
8	169	2.5

# Find

- The correlation coefficient.
- The equation of the linear regression line.
- The coefficient of determination.

# Predict:

- GPA based on 150 days in school.
- A GPA of 3.5 corresponds to how many days in school?

# Interpret the Data

- How many degrees of freedom are you working with?
- How confident are you in a relationship based on a significance level of 0.05? Explain.
- What does  $R^2$  tell us about the model for the data?