



# MATH NEWS



Algebra I, Module 2, Topic C

## Algebra I

### *Module 2: Descriptive Statistics*

#### **Math Parent Letter**

This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 2 of Eureka Math (Engage New York) students develop a set of tools for understanding and interpreting variability in data, and begin to make more informed decisions from the data. Students will also display and interpret graphical representations of data, and when appropriate, choose regression techniques that approximate a linear relationship between quantities. Through the use of linear models, students will determine the goodness of fit.



#### **Focus Area Topic C:**

##### *Categorical Data on Two Variables*

In Topic C, students reconnect with previous work in Grade 8 involving categorical data. Students use a two-way frequency table to organize data on two categorical variables. Students calculate the conditional relative frequencies from the frequency table. They explore a possible association between two categorical variables using differences in conditional, relative frequencies. Students also come to understand the distinction between association between two categorical variables and a causal relationship between two variables. This provides a foundation for work on sampling and inference in later grades.

#### **Words to Know**

**Association:** a statistical association is any relationship between measures of two types of quantities so that one is statistically dependent on the other.

**Conditional relative frequency:** a conditional relative frequency compares a frequency count to the marginal total that represents the condition of interest.

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#### **Focus Area Topic C:**

##### *Categorical Data on Two Variables*

*Lesson 9: Summarizing Bivariate Categorical Data*

[http://youtu.be/5\\_X89PIoS8Y](http://youtu.be/5_X89PIoS8Y)

More information on the Census at school project can be found at [www.amstat.org/censusatschool](http://www.amstat.org/censusatschool)

*Lesson 10: Summarizing Bivariate Categorical data with Relative Frequencies*

<http://youtu.be/vBpSkzT0Ric>

*Lesson 11 : Conditional relative Frequencies and Association*

<http://youtu.be/DuU6ZcMa0P8>

