Common Core Math 7th Grade

Classroom posters, "I can" statements, and vocabulary wall cards

> Laxout created by Jena Phillips Caught in the Middle

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Common Core Standards 7th Grade Math

I can analyze proportional relationships and use them to solve real-world and mathematical problems.

I can apply and add to my previous knowledge of fractions to add, subtract, multiply, and divide rational numbers.

I can apply my knowledge about properties of operations to create equivalent math expressions.

I can solve real-life math problems using number and algebra expressions and equations.

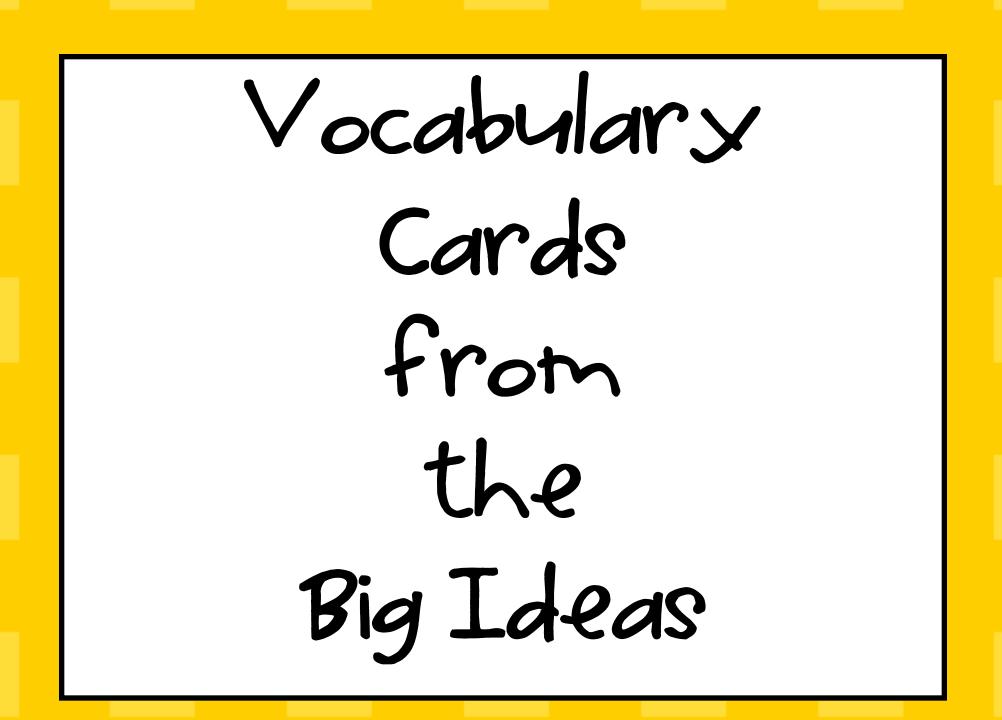
I can draw, construct, and describe geometric figures and how they are related to each other.

I can solve real life math problems that include angle measure, area, surface area, and volume.

I can use a random sample to draw inferences about a population.

I can draw comparative inferences about two populations.

I can investigate chance processes, and develop, use, and evaluate probability models.





proportion

rational numbers

properties of operations

equivalent



algebra

equation



surface area

volume

area

random sample

draw inferences

population

comparative

investigate

chance processes

evaluate

probability models

Learning Objectives for each Big Idea

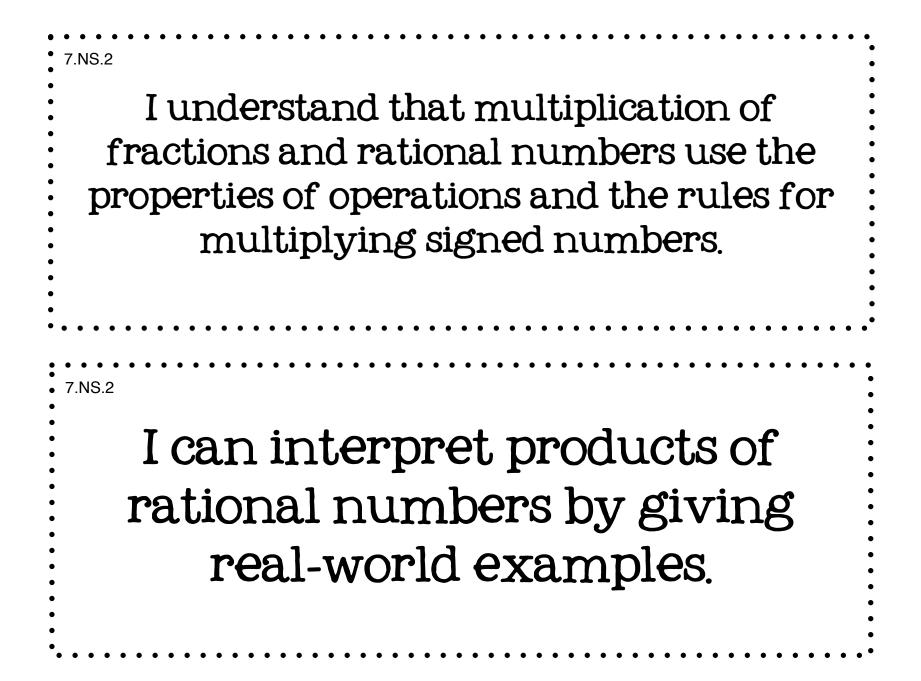
I can solve rate problems that deal with ratios of length, area and other measurements with like or different units.	
I can recognize and show proportions in equations, on function tables and on a graph.	

I can identify the constant of proportionality, or unit rate, in a table, graph, equation, diagram, or description.
I can use proportions to solve multistep ratio and percent problems, such as tax, commissions, gratuities, markups, markdowns, percent increase and decrease, and percent error.

I can apply and expand my prior knowledge of addition and subtraction to add and subtract rational numbers and to represent them on a horizontal or vertical number line.
, ,
7.NS.1
I can describe real world
situations using opposite
quantities to make 0.
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^{7.NS.1} I understand that additive inverse shows a number and its opposite combine to make 0, and that a number's distance from 0 is called absolute value.	
I understand that a number's distance from 0 is called its absolute value.	

I can apply properties of operations as strategies to add and subtract rational numbers.
I can apply and extend previous knowledge of multiplication and division of fractions to multiply and divide rational numbers.

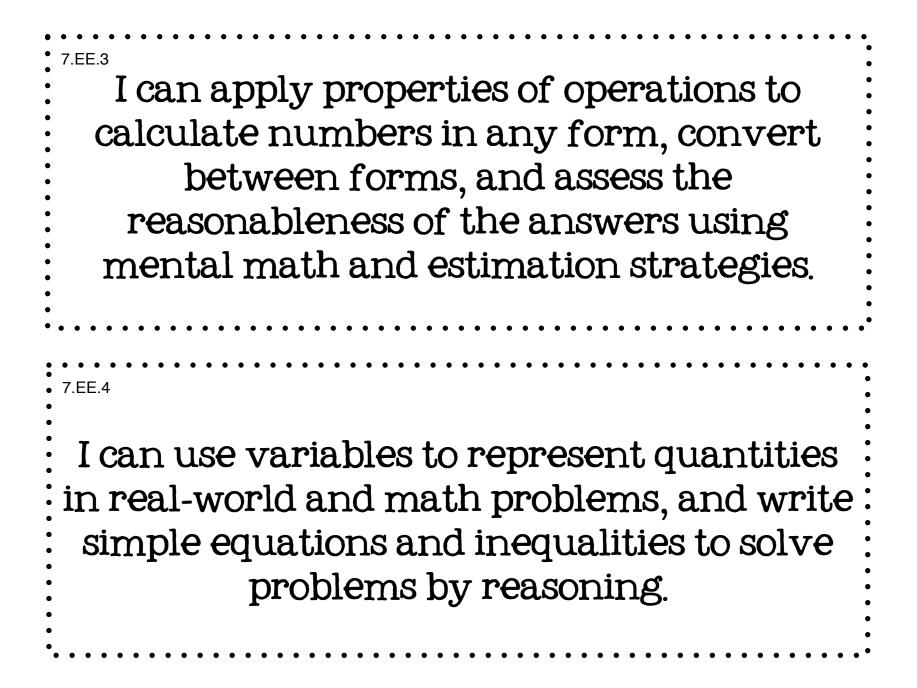


I understand that integers can be divided, as long as the divisor is not zero, and the answer will be a rational number.
I can interpret products of rational numbers by giving real-world examples.

I can apply properties of operations as strategies to multiply and divide rational numbers.
I can convert a rational number to a decimal using long division, and know that the quotient will either terminate or repeat.

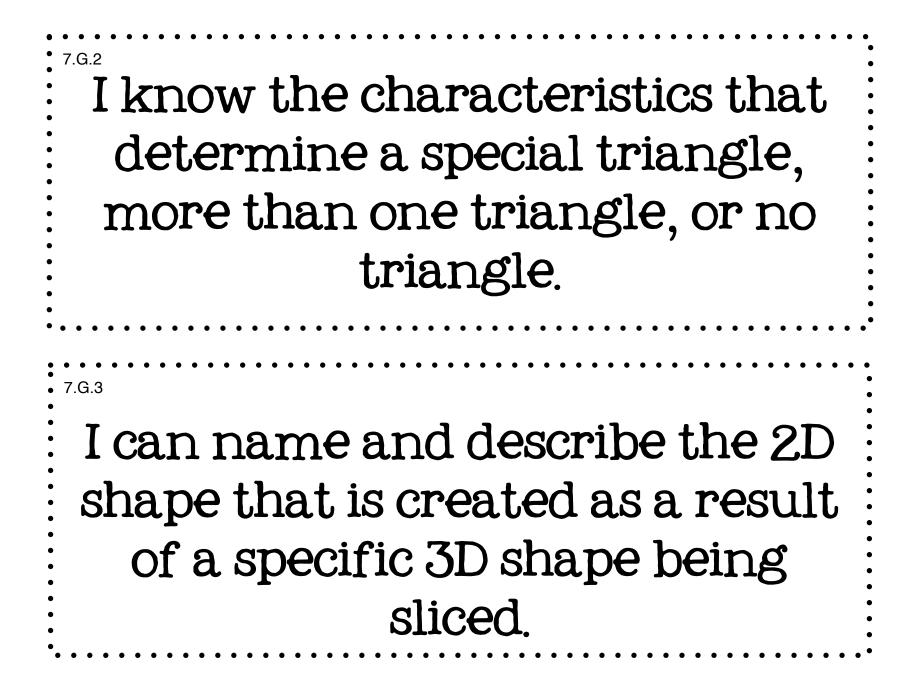
I can solve real-world and mathematical problems using the four operations with rational numbers.	
^{7.EE.1} I can apply properties of operations as a strategy to add, subtract, factor, and expand linear expressions with rational coefficients.	

I can rewrite an expression in a different way, and that will help me understand the problem and how the numbers are related.
^{7.EE.3} I can solve multiple step real-life and math problems with positive and negative rational numbers as whole numbers, fractions, and decimals.

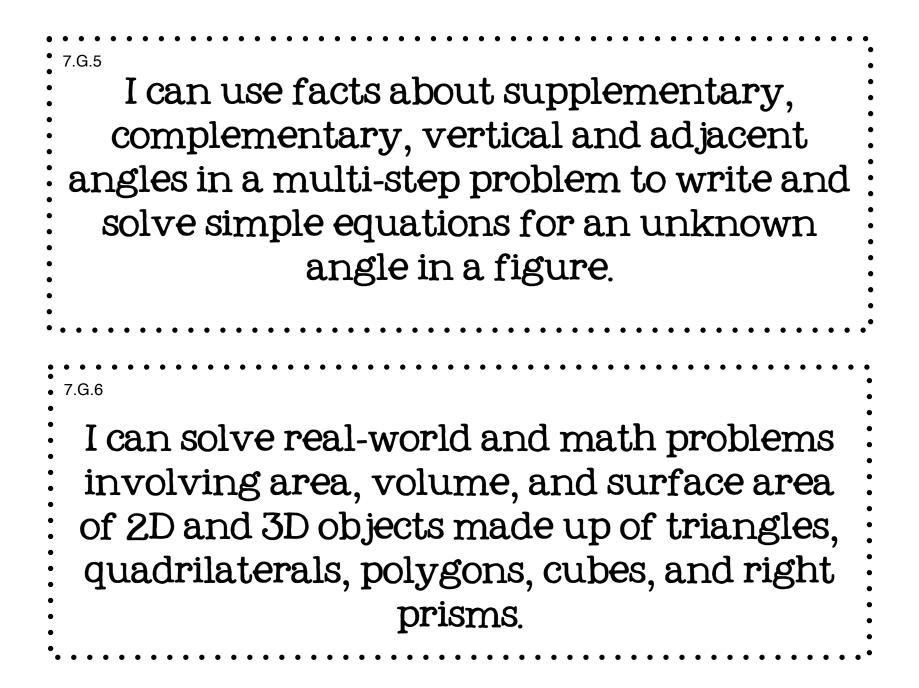


I can solve problems using scale drawings of geometric figures.	
^{7.G.1} I can compute actual lengths and areas from a scale drawing and reproduce a scale drawing at a different scale.	

^{7.G.2} I can draw specific geometric shapes by hand, or by using rulers, protractors, and other technology.
^{7.G.1} I can create a triangle from 3 angle measurements or side lengths.

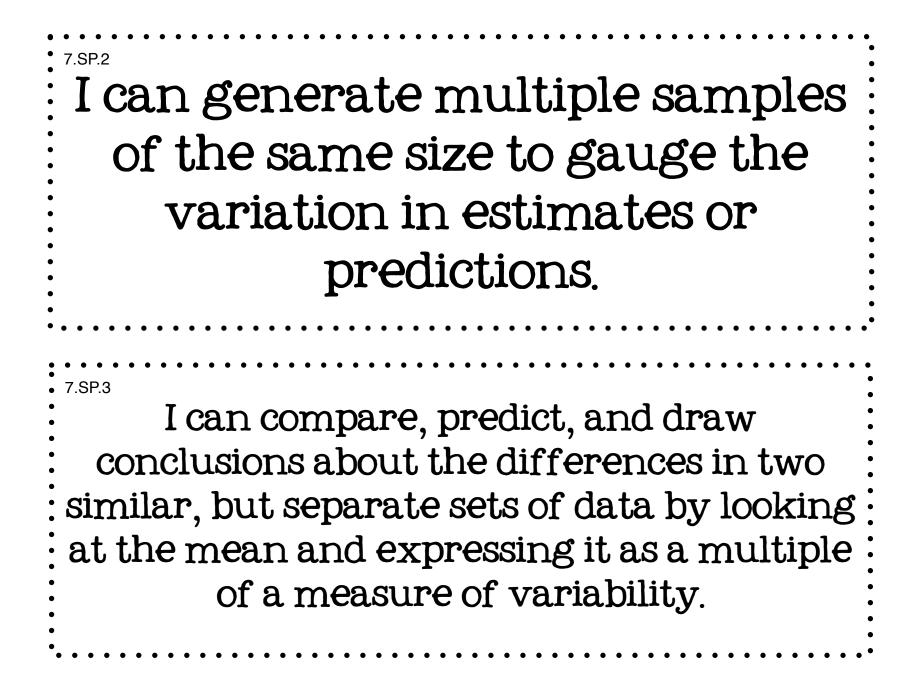


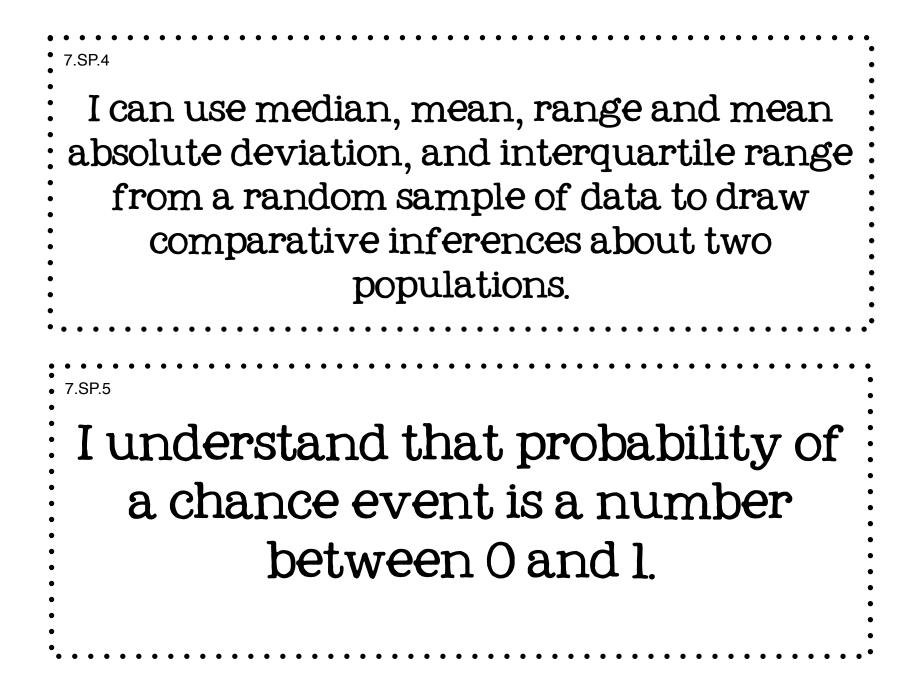
^{7.G.4} I know the formula for the area and circumference of a circle and can use them to solve problems.
^{7.G.4} I can give an informal derivation of the relationship between circumference and area in a circle.



I understand that statistics is used to gain information about a population by examining a sample of that population.
^{7.SP.1} I understand that generalizations about a population from a sample are only valid if the sample is representative of that population.

I understand that random samples produce representative samples and support valid inferences.	9
I can use data from a random sample to draw inferences about a population with an unknown characteristic of interest.	•

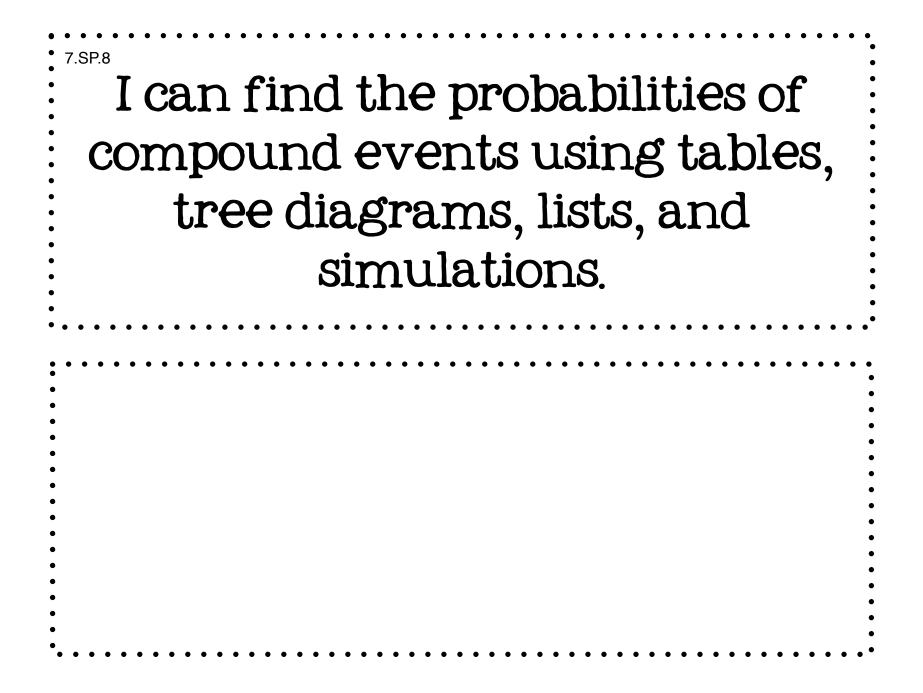




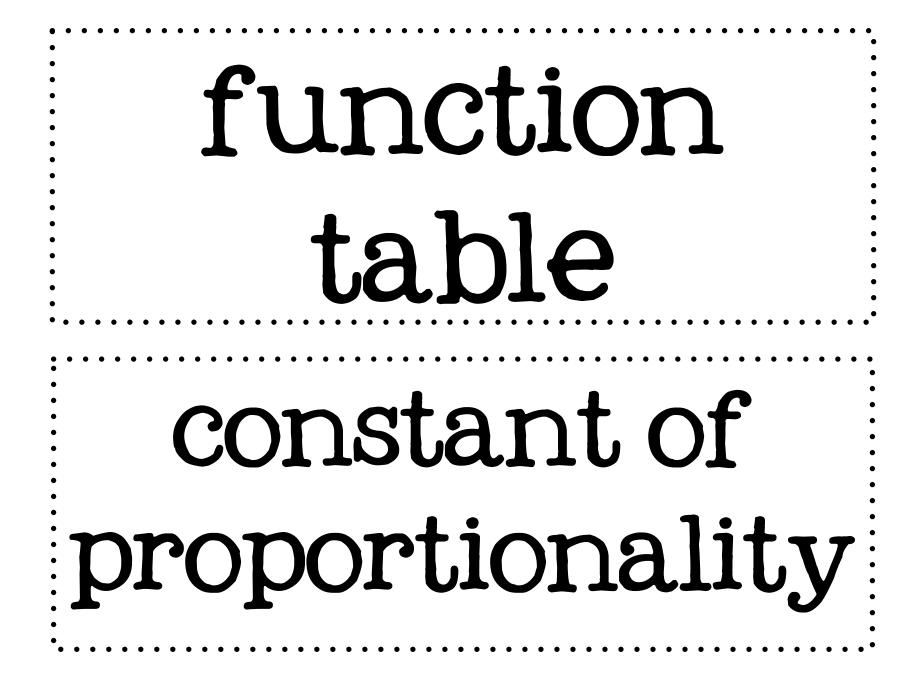
I understand that in probability, the larger the number, the greater the likelihood an event will occur.
^{7.SP.5} I understand that a probability near 0 means an unlikely event, a probability near 1/2 means the event is neither likely nor unlikely, and that a probability near 1 means that the event is very likely to occur.

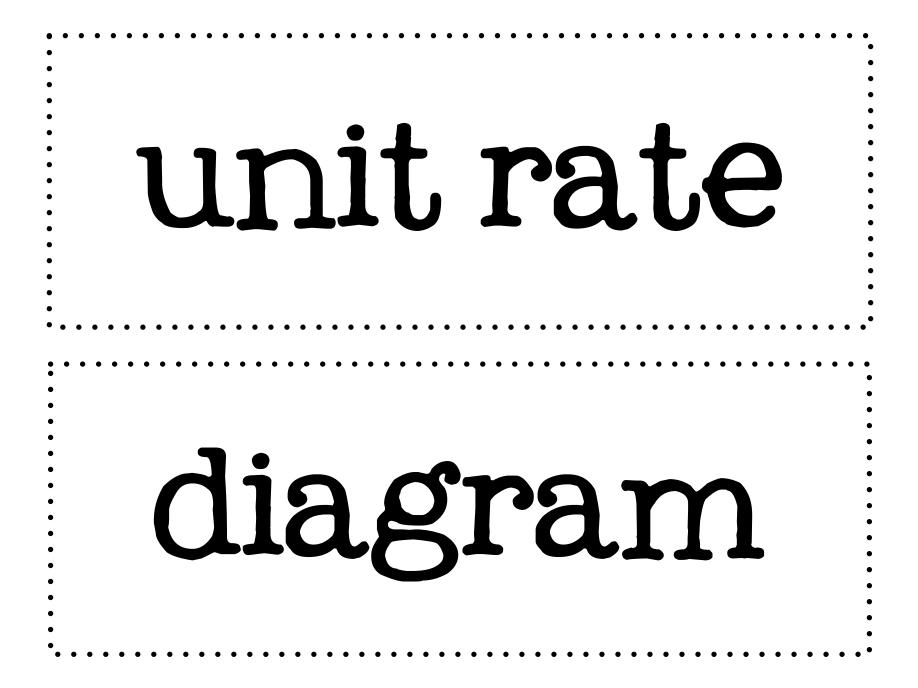
^{7.SP.5} I understand that in probability, the larger the number, the greater the likelihood an event will occur.
^{7.SP.6} I can approximate the probability of a chance event by collecting data and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.

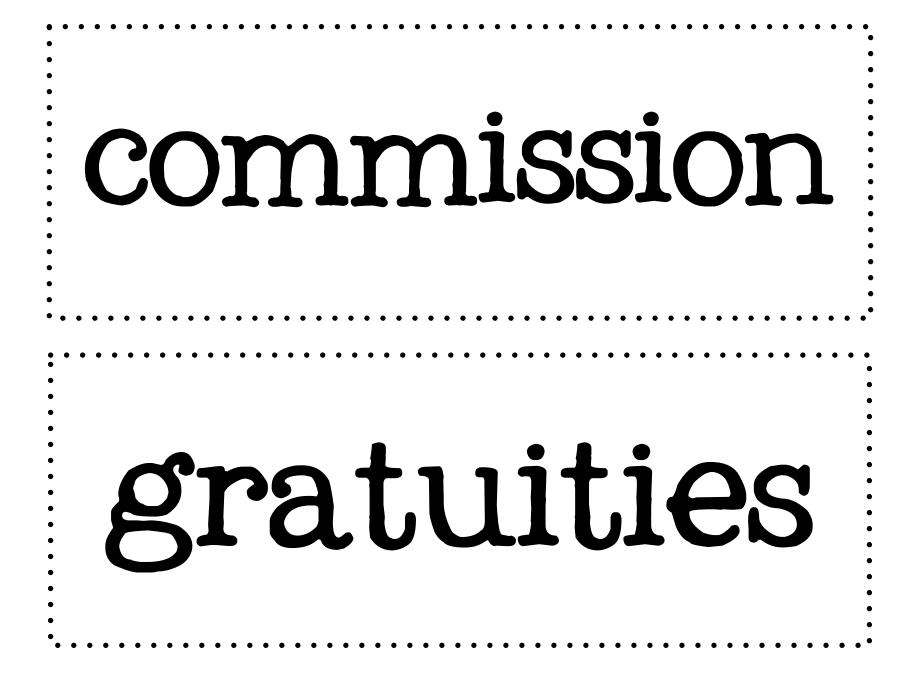
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I can develop an experiment,
and collect results to compare
the outcomes of the
experimental probabilities.
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I can compare and contrast experimental and theoretical
probabilities, and explain the discrepancies.

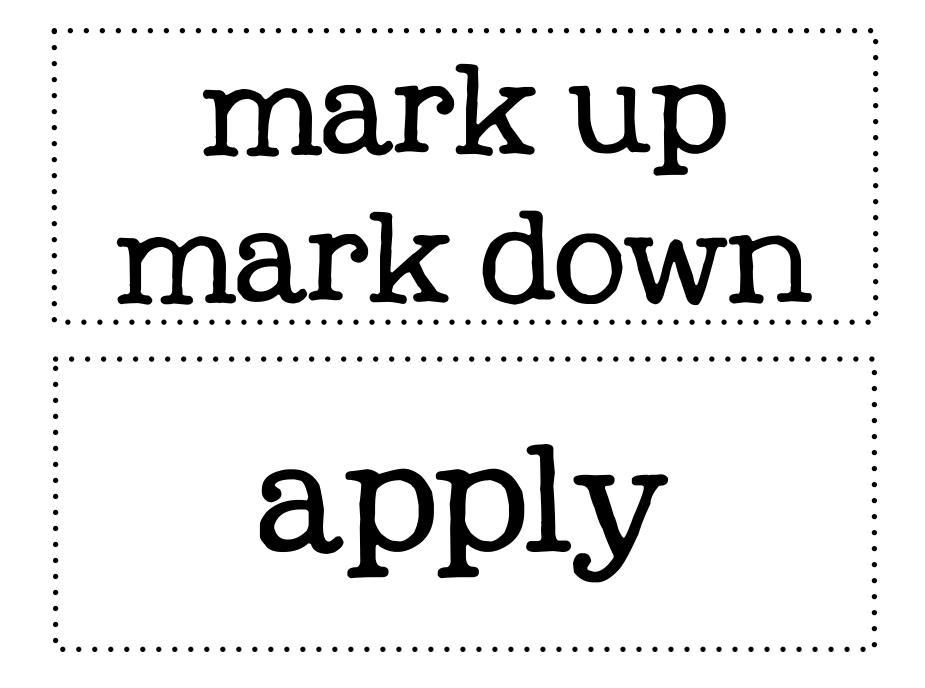


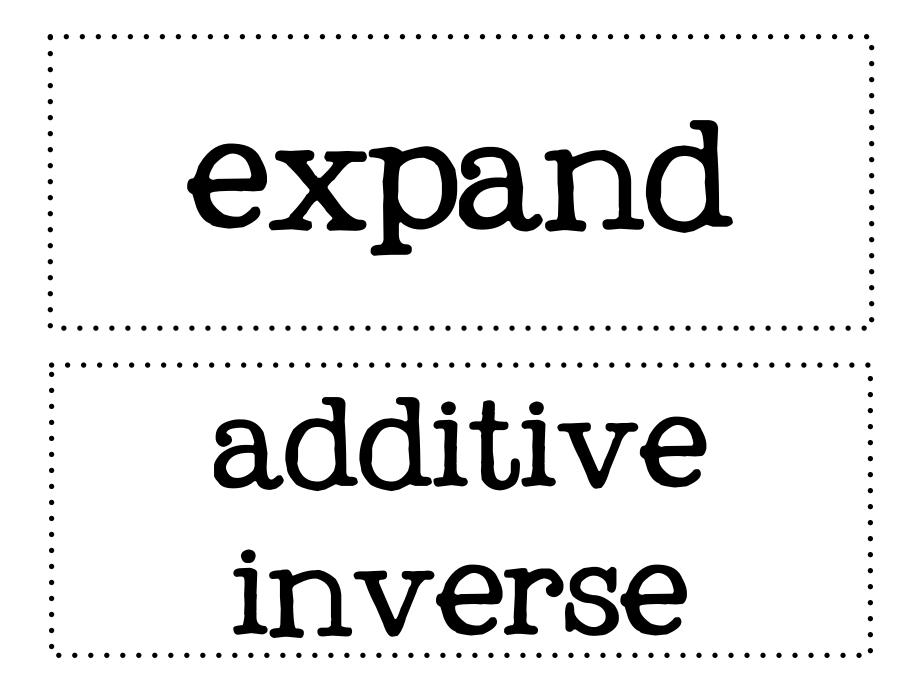
Vocabulary Cards from Learning Ob jectives

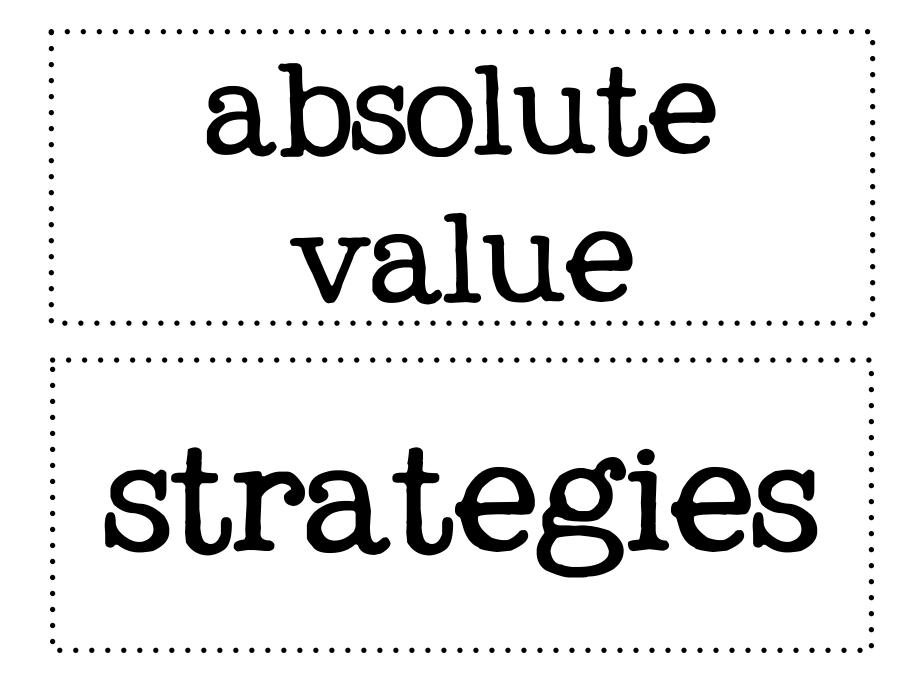


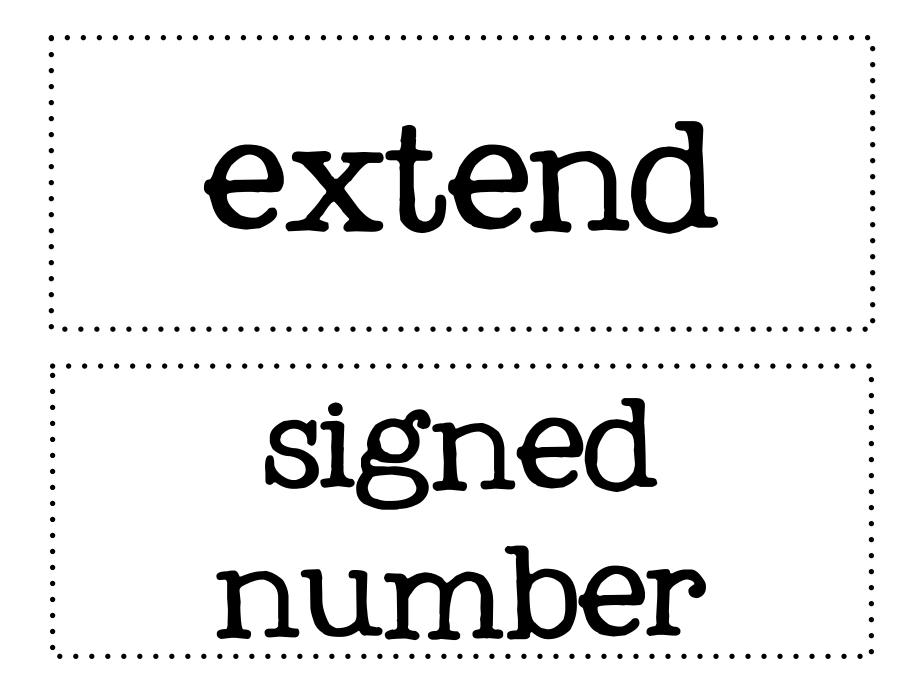


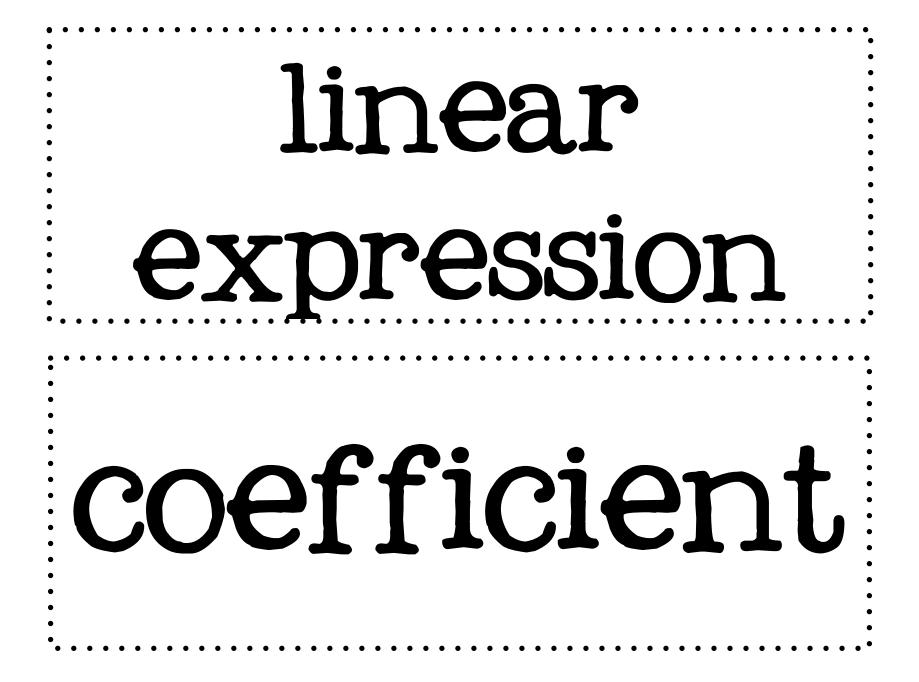


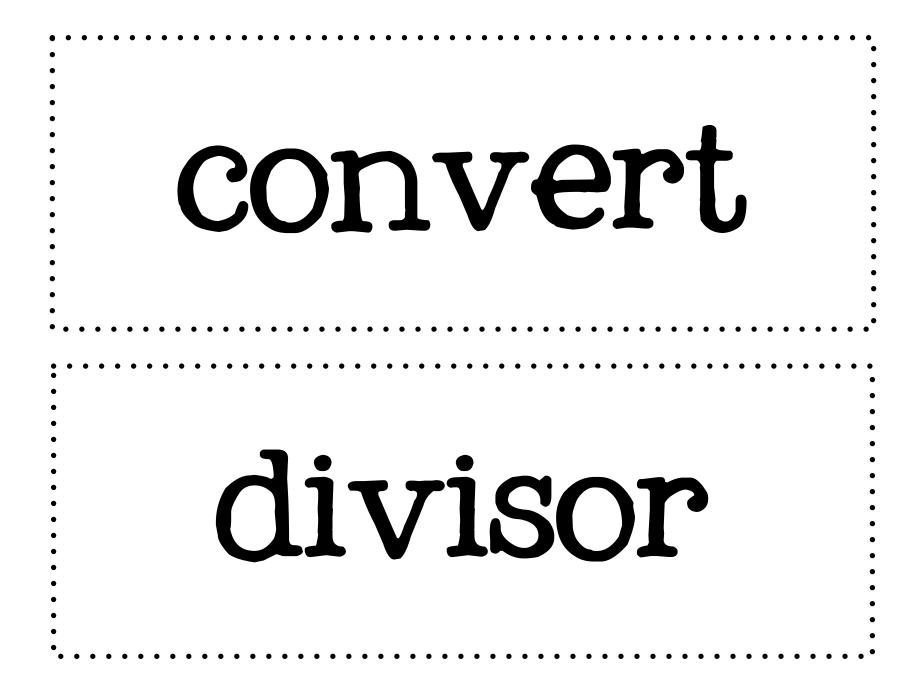


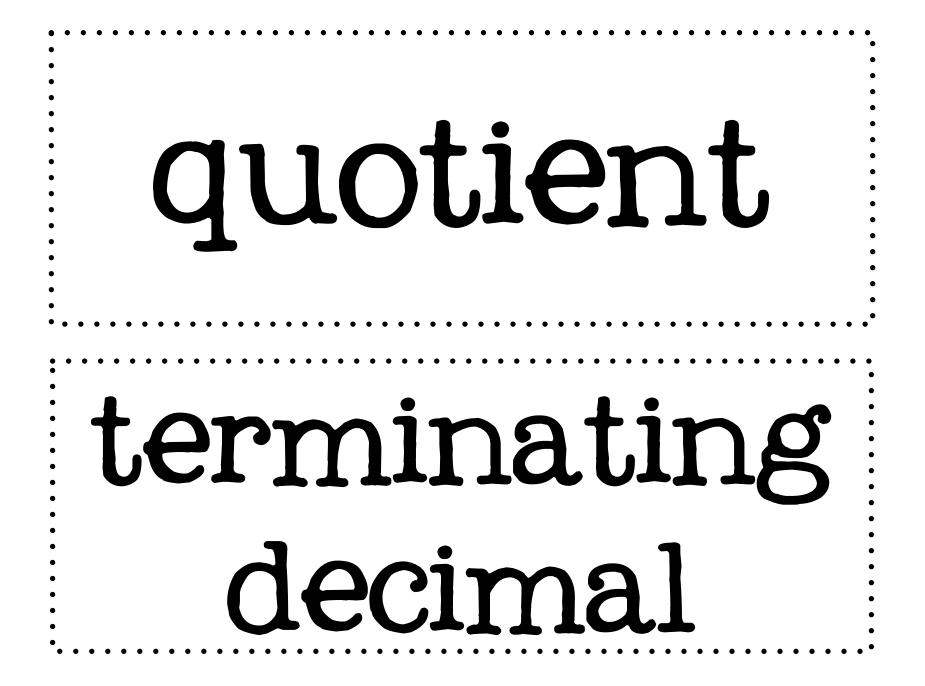


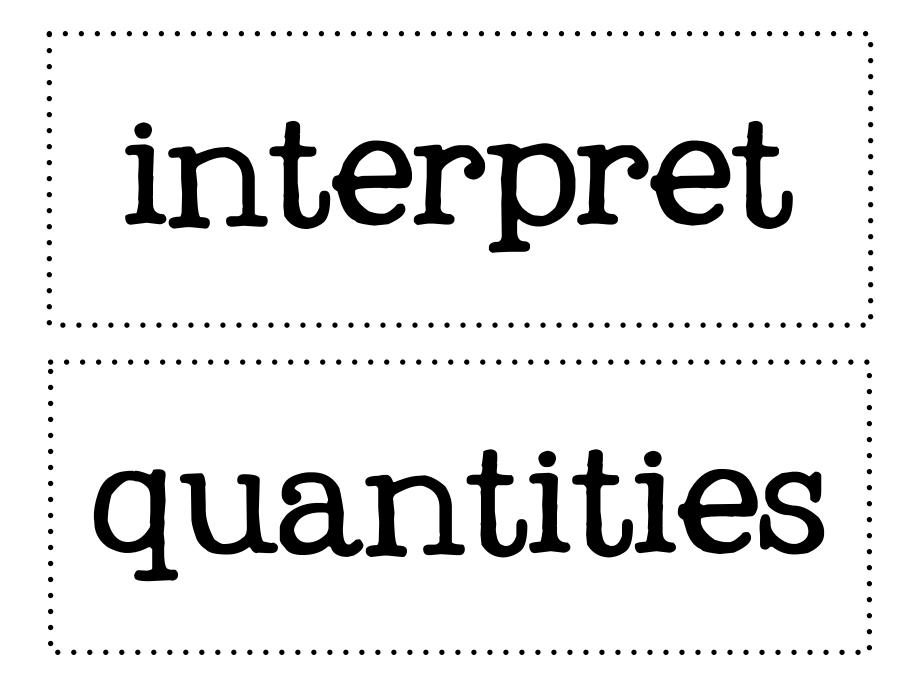


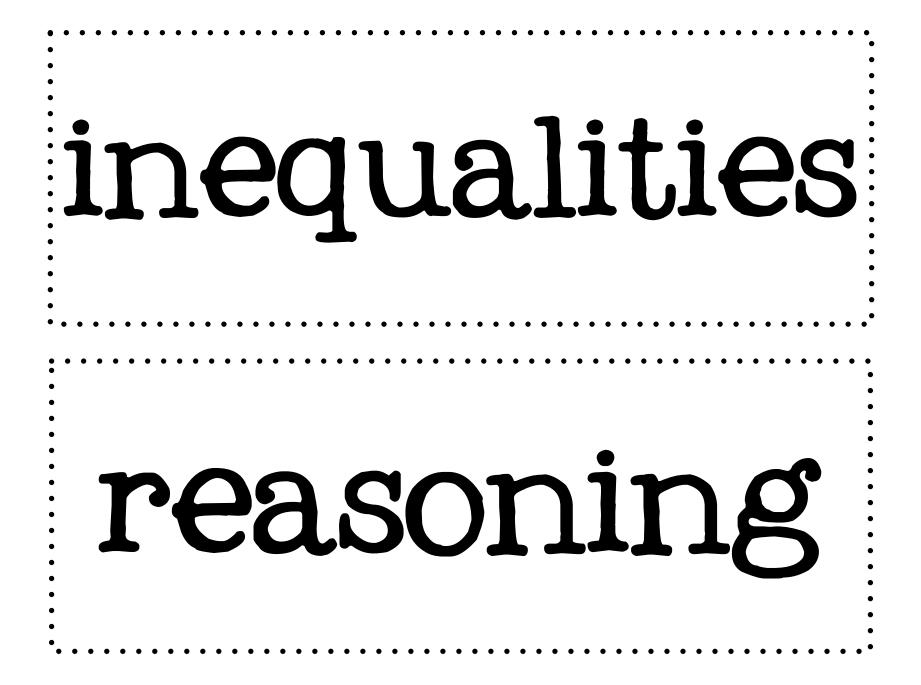


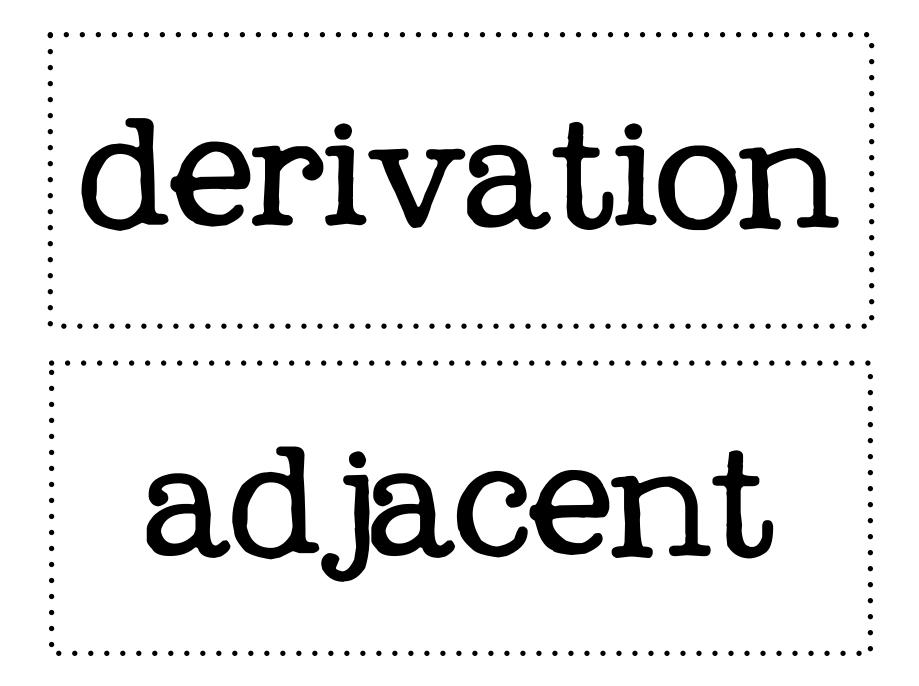


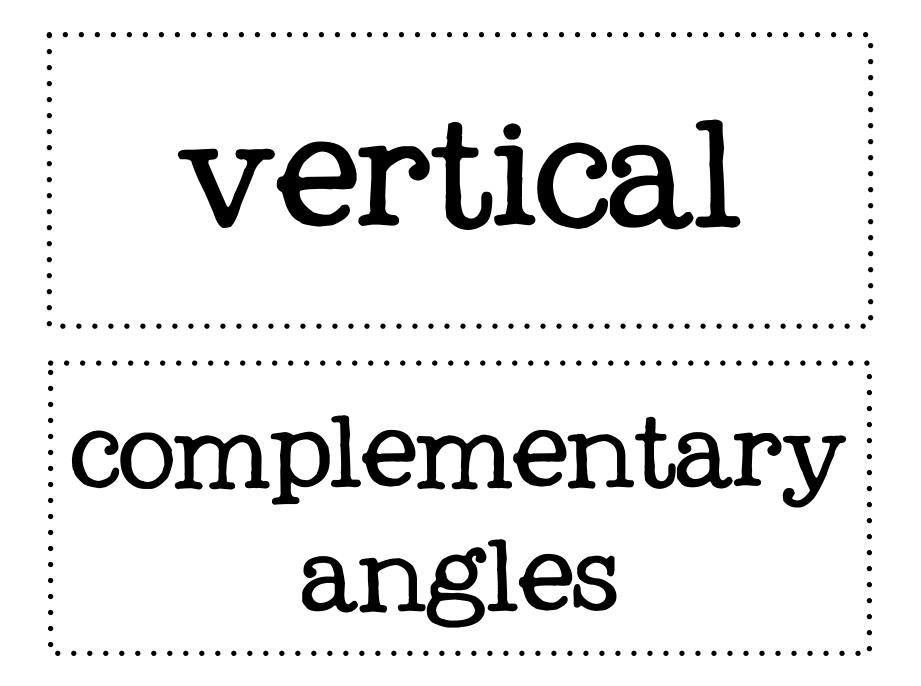


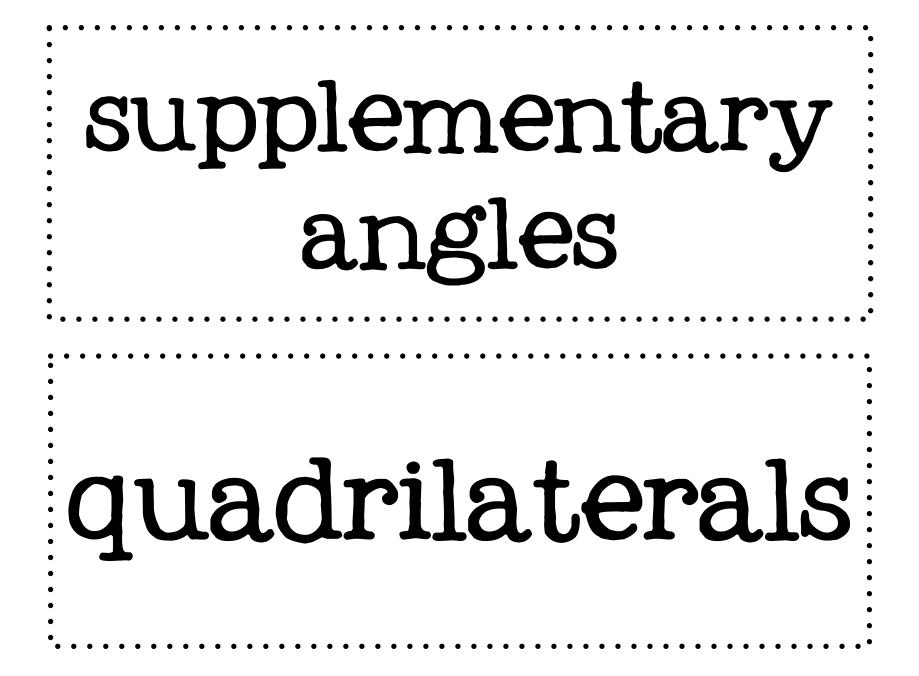


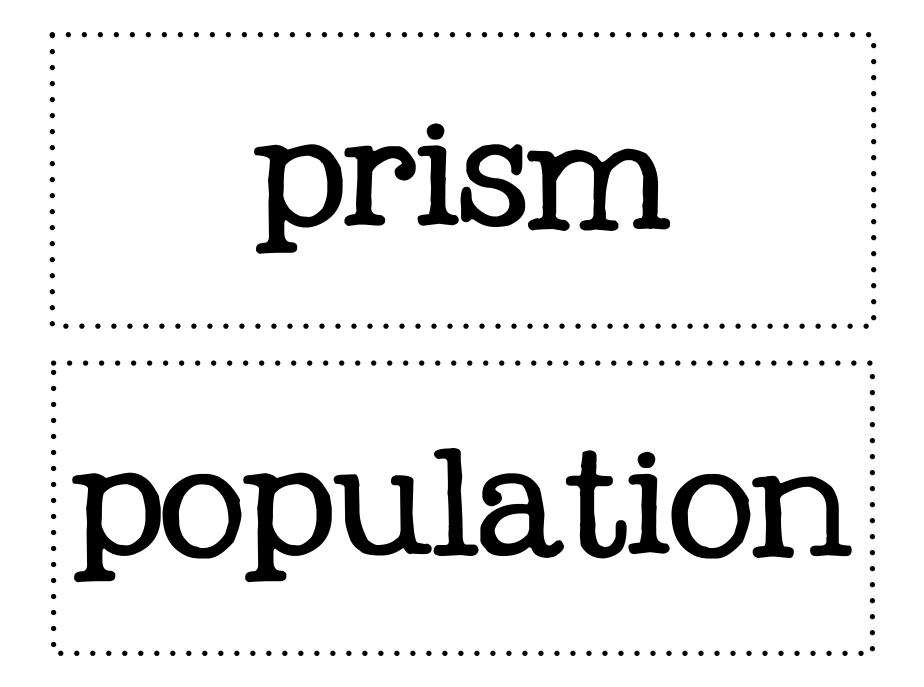


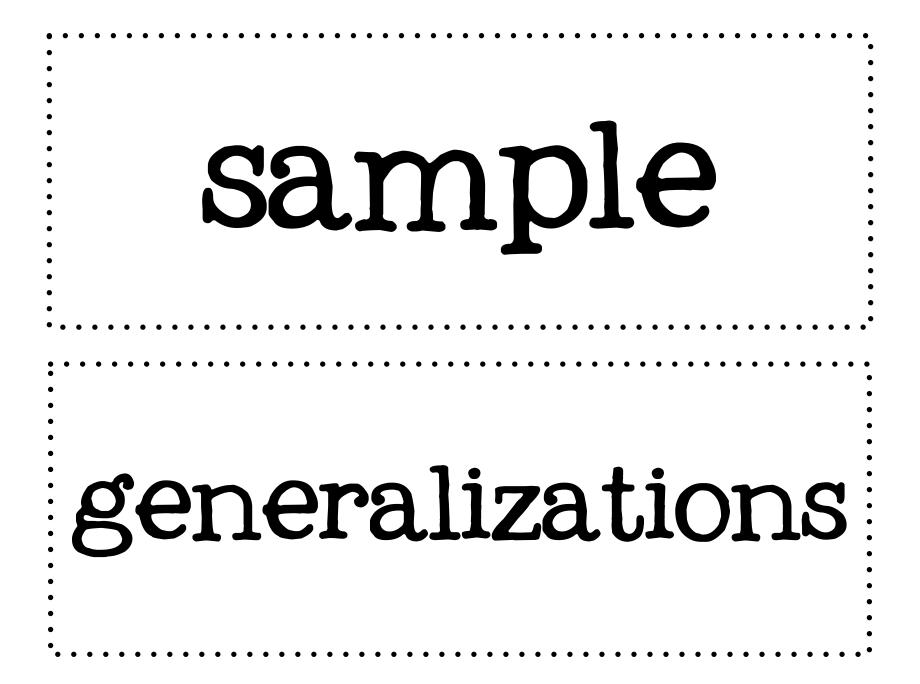


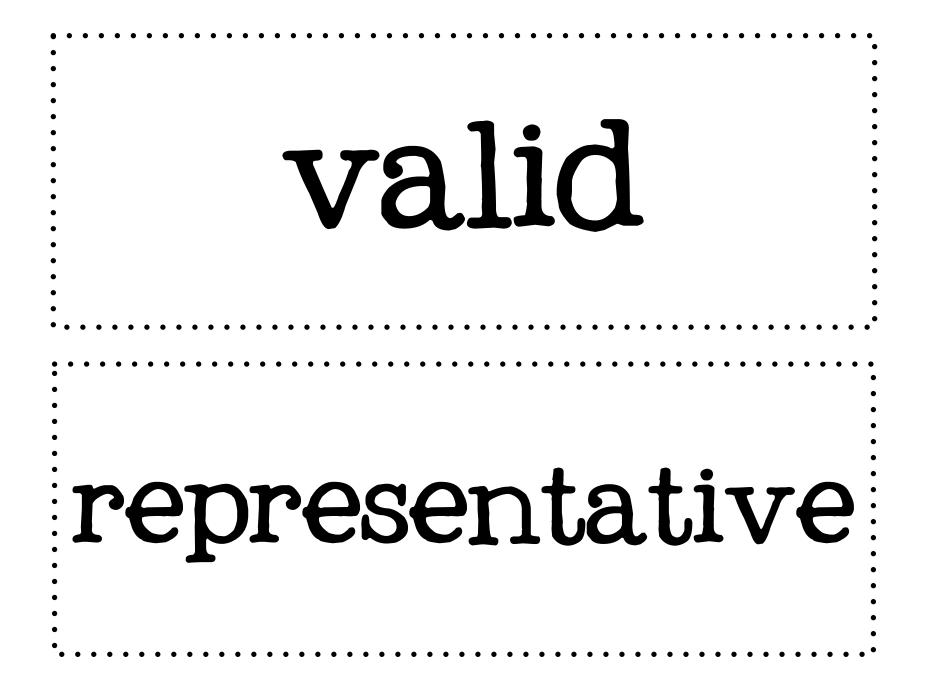


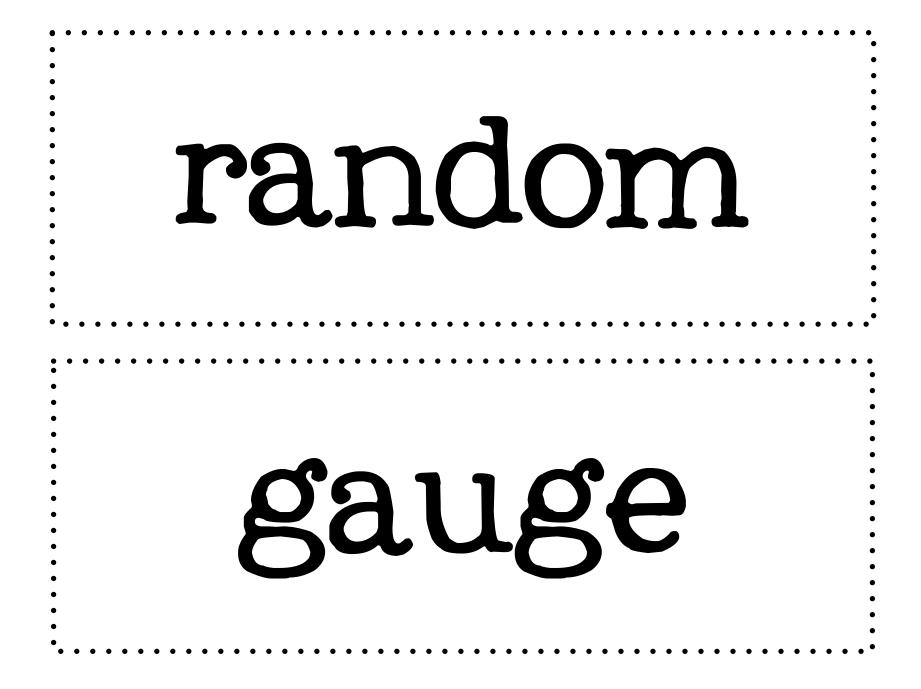


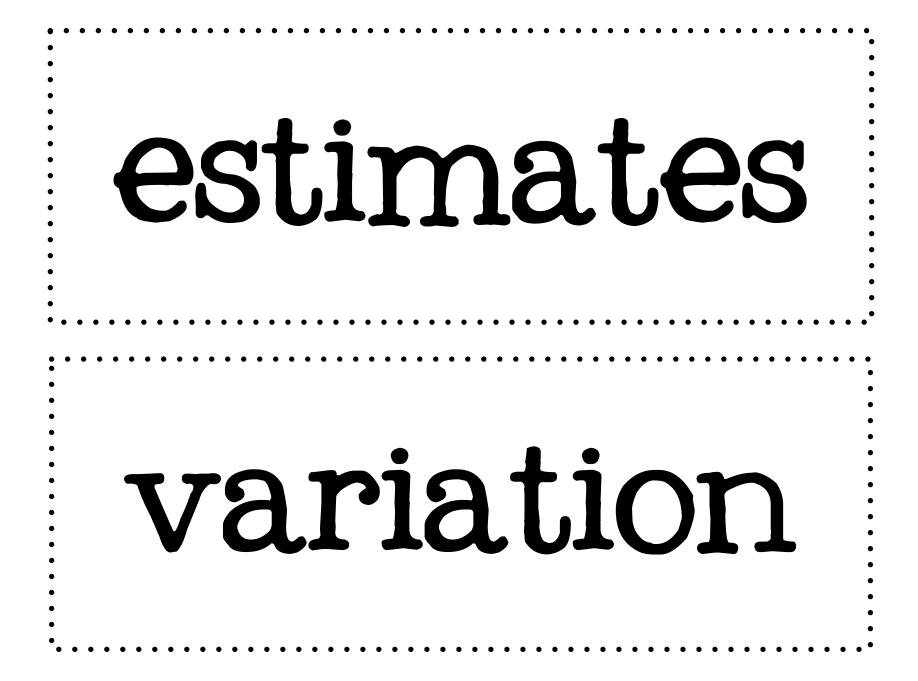


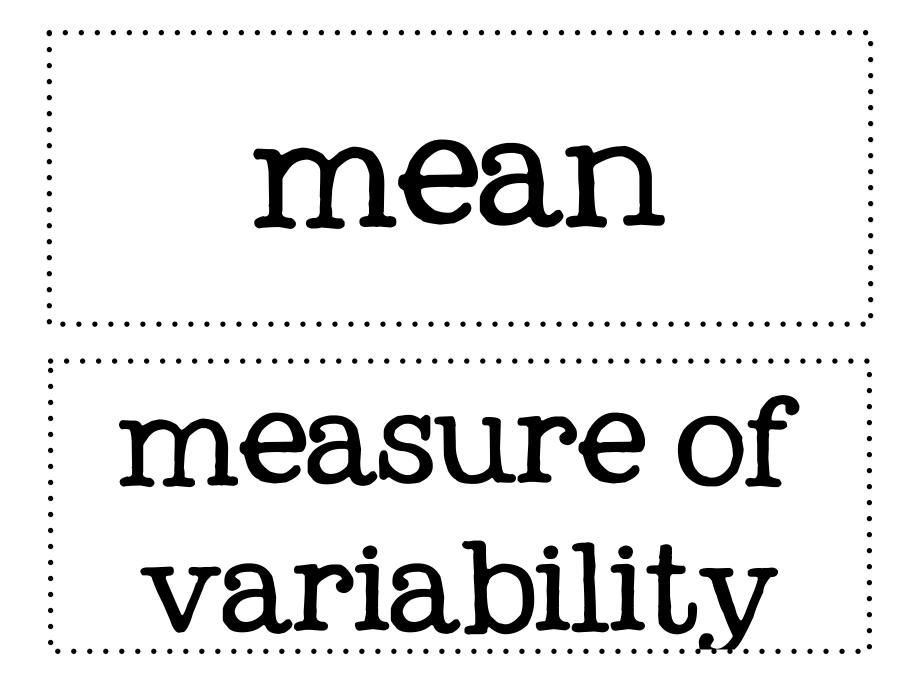




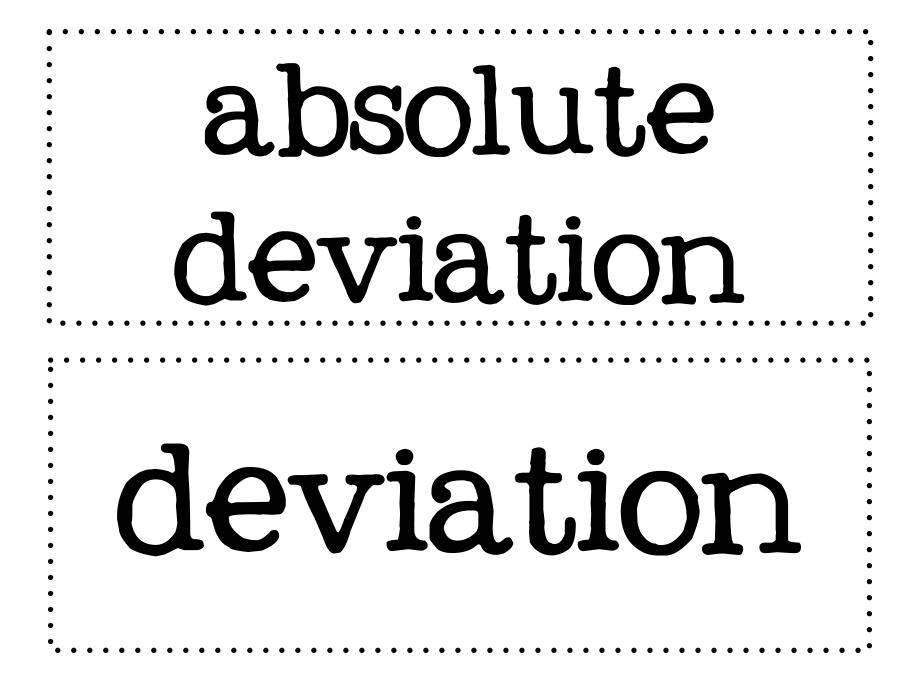


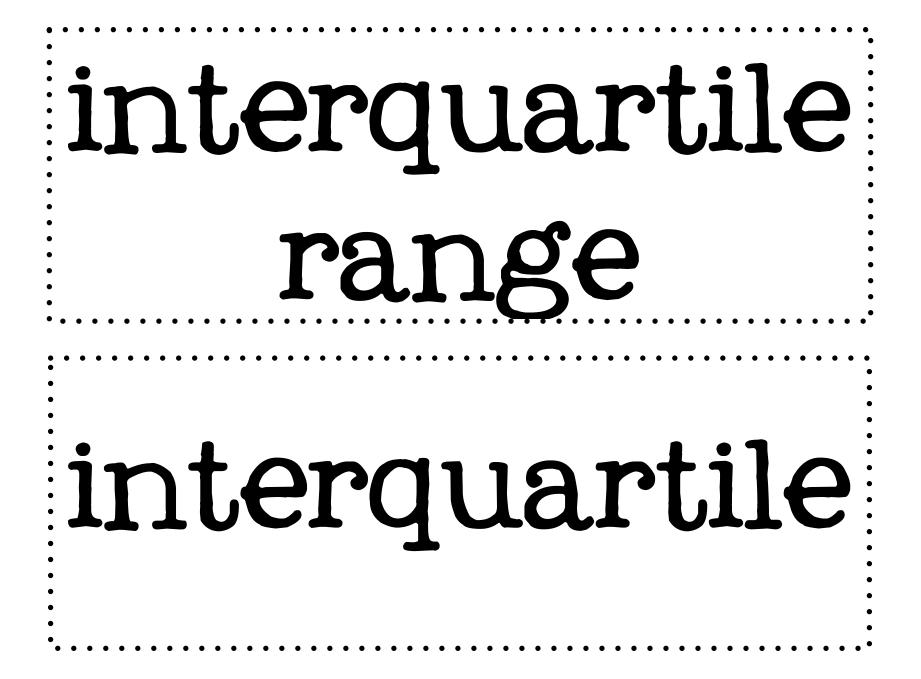


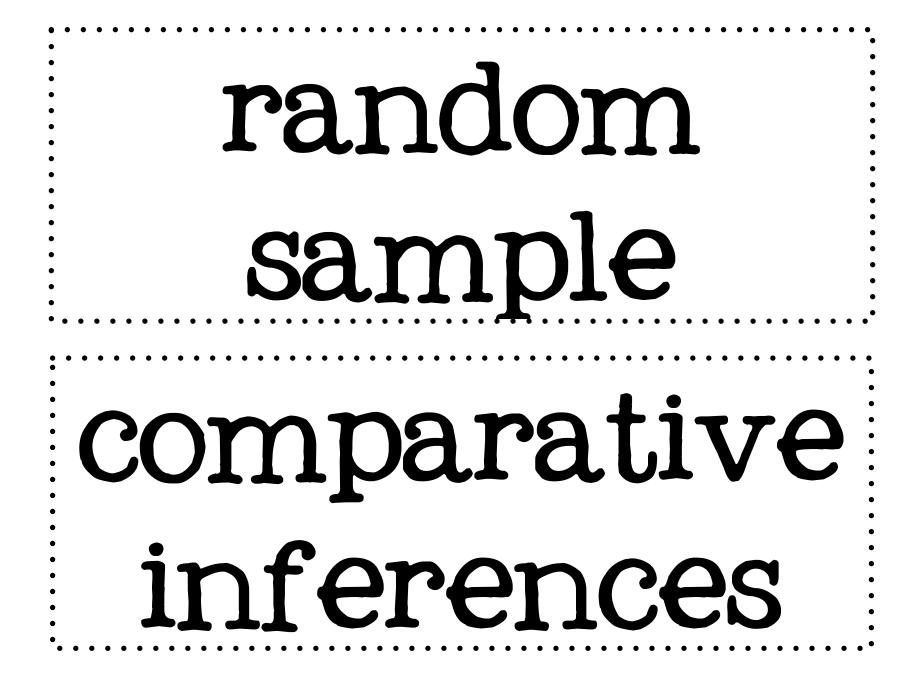


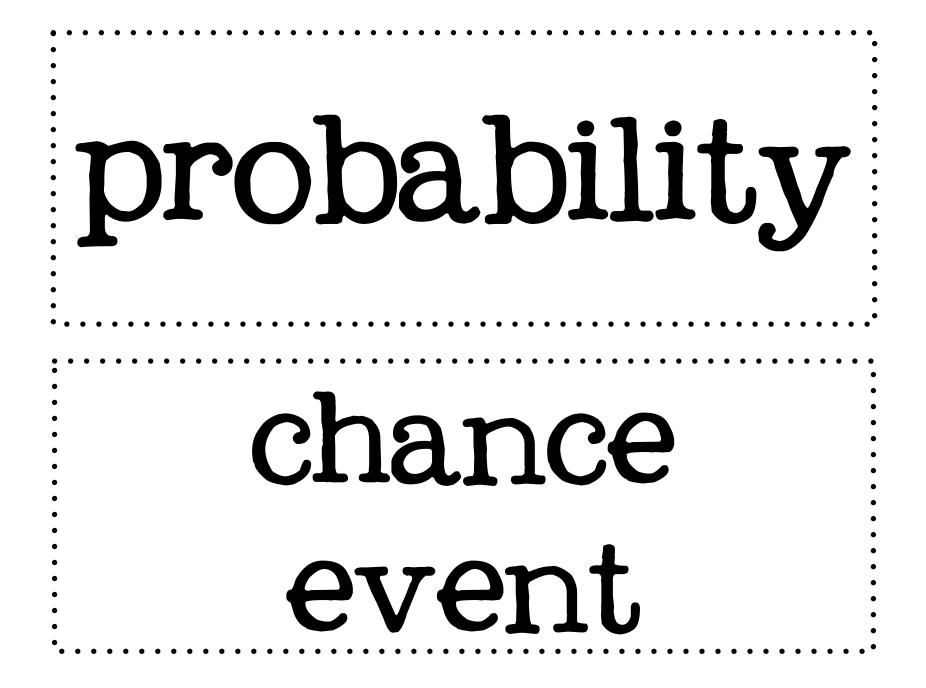


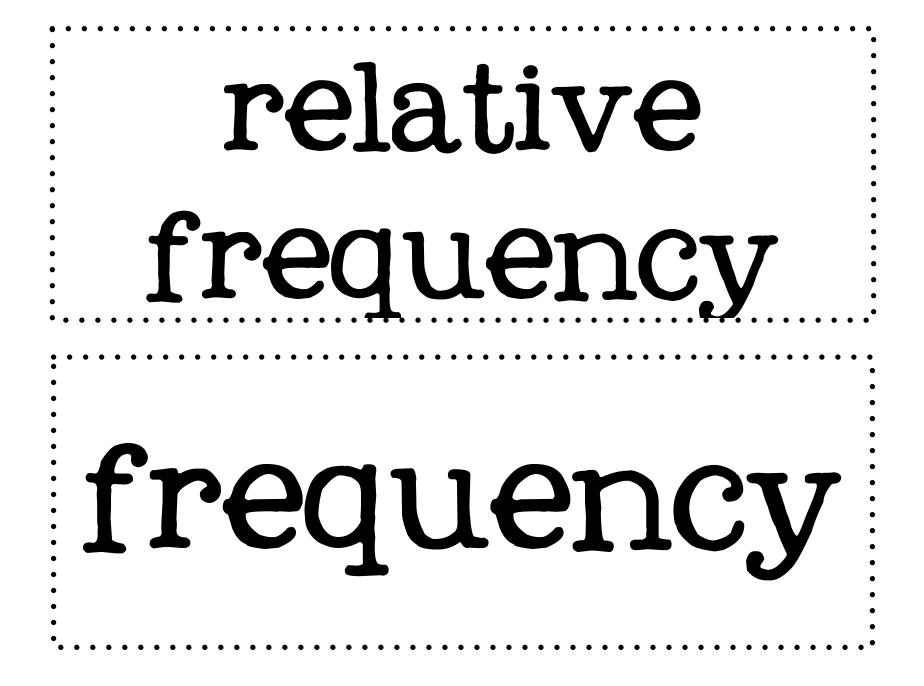


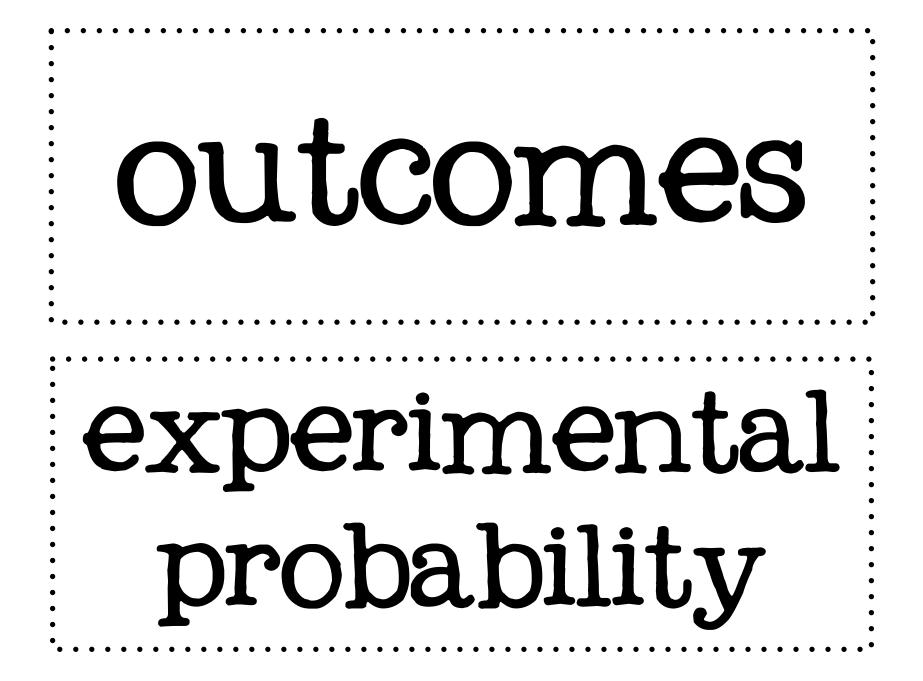


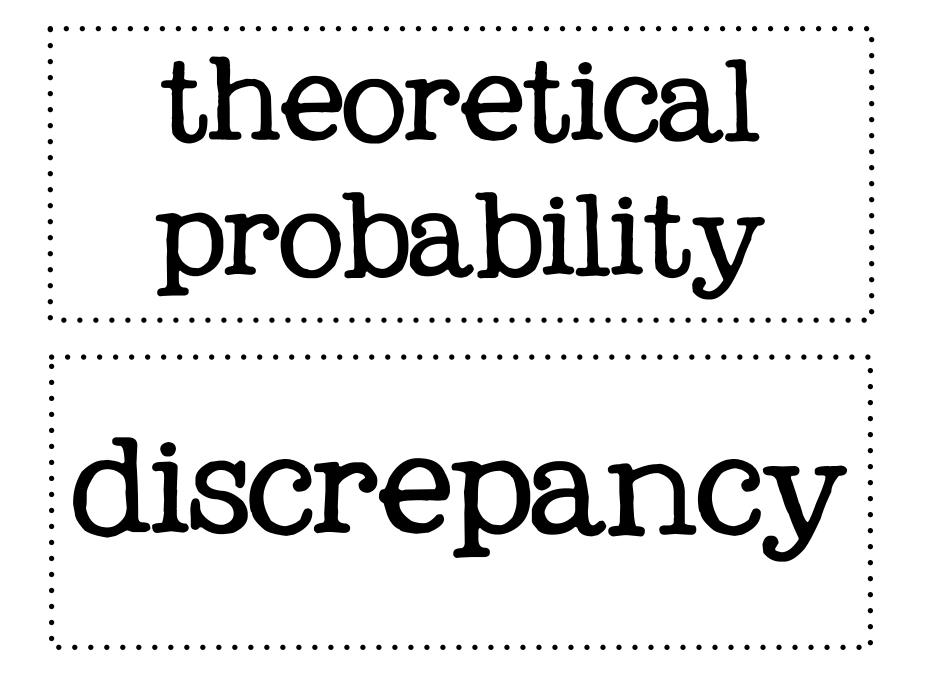


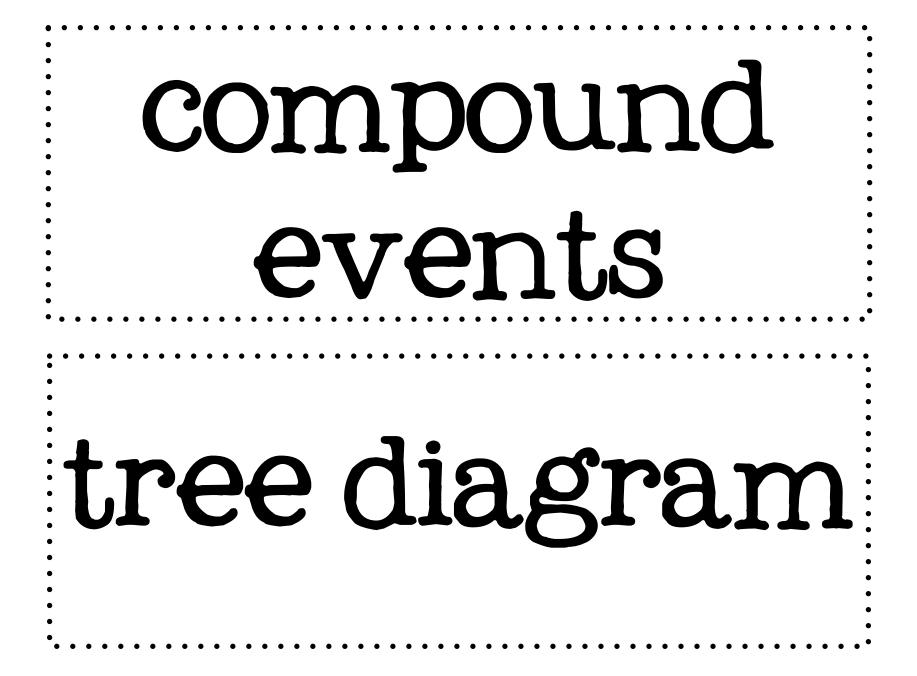












simulation

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I hope that you will be able to use these in your classroom! If you have enjoyed your download, please consider rating my product, following my <u>TpT</u> site and blog, <u>Caught in the Middle</u>.

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