

NCTM Content Standards Assessment Rubric

Data Analysis & Probability – Drill Sheets

Student's Name: _____ Assignment: _____ Level: _____

	Level 1	Level 2	Level 3	Level 4
Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them	<ul style="list-style-type: none"> Demonstrates a limited ability to formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them 	<ul style="list-style-type: none"> Demonstrates a basic ability to formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them 	<ul style="list-style-type: none"> Demonstrates a good ability to formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them 	<ul style="list-style-type: none"> Demonstrates a thorough ability to formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them
Select and use appropriate statistical methods to analyze data	<ul style="list-style-type: none"> Demonstrates a limited ability to select and use appropriate statistical methods to analyze data 	<ul style="list-style-type: none"> Demonstrates a basic ability to select and use appropriate statistical methods to analyze data 	<ul style="list-style-type: none"> Demonstrates a good ability to select and use appropriate statistical methods to analyze data 	<ul style="list-style-type: none"> Demonstrates a thorough ability to select and use appropriate statistical methods to analyze data
Develop and evaluate inferences and predictions that are based on data	<ul style="list-style-type: none"> Demonstrates a limited ability to develop and evaluate inferences and predictions that are based on data 	<ul style="list-style-type: none"> Demonstrates a basic ability to develop and evaluate inferences and predictions that are based on data 	<ul style="list-style-type: none"> Demonstrates a good ability to develop and evaluate inferences and predictions that are based on data 	<ul style="list-style-type: none"> Demonstrates a thorough ability to develop and evaluate inferences and predictions that are based on data

STRENGTHS:

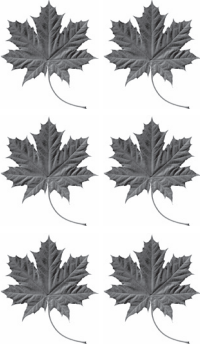



WEAKNESSES:

NEXT STEPS:



4a) The table below shows the different colored leaves that John collected.

Ex: Is it more likely to pick a red or yellow leaf at random? red

			
Red Leaves	Yellow Leaves	Orange Leaves	Green Leaves

- How many total leaves are in the box? _____
- How many leaves are red? _____
- How many leaves are not green? _____
- How many leaves are either yellow or orange? _____
- What two colors have the same amount of leaves? _____
- How many more leaves are red than orange? _____
- How many more leaves are orange than green? _____
- Suppose you had two more yellow leaves.
How many would you have? _____
- Suppose you pick a leaf at random. What color leaf
would you most likely pull out? _____
- Suppose you pick a leaf at random. What color leaf
would you least likely pull out? _____

Reflection

Suppose you have twice as many leaves in the box.
How many will be red, yellow, orange and green?



Review B



a) Mr. Smith's class visited a farm. The chart below shows how many of each type of animal they saw on the farm.

Animal	Number on the farm (/ = 1)
Cow	////////
Goat	/////
Horse	//
Pig	/////
Sheep	////////

SAMPLE

- How many total animals did the class see on the farm? _____
- How many cows did the students see? _____
- How many goats did the students see? _____
- How many more pigs than horses did the students see? _____
- How many more sheep than goats did the students see? _____
- How many total cows and horses did the students see? _____
- Which animal did the students see the most? _____
- Which animal did the students see the least? _____
- The students saw the same amount of which two animals? _____
- What animal were the students most likely to see? _____

Class Survey



Survey the class and tally up how many people put each topping listed in the chart below on their hamburger. Color in the chart with how many people liked each topping.



1. How many people like vegetables on their hamburger? _____
2. How many people like cheese on their hamburger? _____
3. How many people like mustard and ketchup? _____

15							
14							
13							
12							
11							
10							
9							
8							
7							
6							
5							
4							
3							
2							
1							
	Pickle	Lettuce	Cheese	Tomato	Onion	Mustard	Ketchup

SAMPLE