NCTM Process Standards Rubric

Data Analysis & Probability – Drill Sheets

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Expectations Instructional programs from pre- kindergarten through grade 12 should enable all students to:	 build new mathematical knowledge through problem solving; solve problems that arise in mathematics and in other contexts; apply and adapt a variety of appropriate strategies to solve problems; monitor and reflect on the process of mathematical problem solving. 	 recognize reasoning and proof as fundamental aspects of mathematics; make and investigate mathematical conjectures; develop and evaluate mathematical arguments and proofs; select and use various types of reasoning and methods of proof. 	 organize and consolidate their mathematical thinking through communication; communicate their mathematical thinking coherently and clearly to peers, teachers, and others; analyze and evaluate the mathematical thinking and strategies of others; use the language of mathematics to express mathematical ideas precisely. 	 recognize and use connections among mathematical ideas; understand how mathematical ideas interconnect and build on one another to produce a coherent whole; recognize and apply mathematics in contexts outside of mathematics. 	 create and use representations to organize, record, and communicate mathematical ideas; select, apply, and translate among mathematical representations to solve problems; use representations to model and interpret physical, social, and mathematical phenomena.
	Problem Solving Problem Solving	GOAL 2: Reasoning & Proof	GOAL 3: Communication	Connections CoAL 4:	Representation GOAL 5:

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NAME:



linute⁹

8a) Jonathan's marble collection is shown below.

🏽 🗞 Timed Drill Sheet # 5

Ex: If you put these marbles in a bag, what color are you less likely to pick? orange



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Blue	Orange	Green	Gray	Purple
1. How many ma	arbles are there	all?		
2. How many ma	arbles are pice?			
3. How many m	rbles are grang	e?		
4. How many ma	arbles cre green	?		
5. How many me	ore marbles are	blue than orang	e?	
6. How many ma	arbles are gray, (green, or purple?) 	
7. If you put thes what color ar	se marbles in a b e you most likel	bag, I y to pick?		
8. If you put thes to pick a gray	se marbles in a b r marble or an o	bag, are you less range marble?	ikely	
9. How many gr	ay marbles are t	here?		
10. How many m	narbles are not k	olue?		
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a) The chart below shows the different favorite places the students of Mr. Sorenson's class like to spend time.



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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?



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	Pickle	Lettuce	Cheese	Tomato	Onion	Mustard	Ketchup	

