# NCTM Process Standards Rubric

### Data Analysis & Probability – Drill Sheets

Review C	>>>	>>	<u> </u>	>>>>	>>>>
B wsivsA	<u>&gt;&gt;&gt;</u>	>>	> >	>>>>	>>>
А чэічэЯ	>>>	>>	<ul> <li>/</li> <li>/</li> </ul>	>>>>	>>>
II Ilird bəmiT	>>>	>	~	>>>>	>>>
Timed Drill 10	>>>>	> >> >	~	>>>>	>>>
9 dn-m7eW	>>>	>>	>	>>>	>>>
9 Ilird Drill 9	<u>&gt;&gt;&gt;</u>	>>	>	>>>>	>> >
C qu-mreW	>>>>	> >> >	<u> </u>		> > >
8 Ilird bəmiT	>>>	> > > >	> >		>>>
7 Ilird bəmiT	>>>	> >	> >		>>>
4 du-mreW	>>>	> >		>	>>>>
₩ 9 Ilird bəmiT	>>>	>>		> > > >	>>>
🚡 č Ilird bəmiT	>>>	>>			>>>
Varm-up 3 🗖	>>>	> >> >		>>>>	>>>
4 Ilined Drill 4	>>>			>>>>	>>>
Timed Drill 3	>>>		· · ·	>>>>	>>>
7 dn-mzeM			> >	>>>>	>>>>
Timed Drill 2		5 5 5 5	>>>>	>>>>	>>>
I Ilined Drill I		> >	>>>>	>>>>	>>>
I qu-m7sW		>>	> >	>>>>	>>>>
<b>Expectations</b> Instructional programs from pre- kindergarten through grade 12 should enable all students to:	<ul> <li>build new mathematical knowledge through problem solving;</li> <li>solve problems that arise in mathematics and in other contexts;</li> <li>apply and adapt a variety of appropriate strategies to solve problems;</li> <li>monitor and reflect on the process of mathematical problem solving.</li> </ul>	<ul> <li>recognize reasoning and proof as fundamental aspects of mathematics;</li> <li>make and investigate mathematical conjectures;</li> <li>develop and evaluate mathematical arguments and proofs;</li> <li>select and use various types of reasoning and methods of proof.</li> </ul>	<ul> <li>organize and consolidate their mathematical thinking through communication;</li> <li>communicate their mathematical thinking coherently and clearly to peers, teachers, and others;</li> <li>analyze and evaluate the mathematical thinking and strategies of others;</li> <li>use the language of mathematics to express mathematical ideas precisely.</li> </ul>	<ul> <li>recognize and use connections among mathematical ideas;</li> <li>understand how mathematical ideas interconnect and build on one another to produce a coherent whole;</li> <li>recognize and apply mathematics in contexts outside of mathematics.</li> </ul>	<ul> <li>create and use representations to organize, record, and communicate mathematical ideas;</li> <li>select, apply, and translate among mathematical representations to solve problems;</li> <li>use representations to model and interpret physical, social, and mathematical phenomena.</li> </ul>
	Problem Solving Problem Solving	GOAL 2: Reasoning & Proof	GOAL 3: Communication	connections COAL 4:	Representation ScoAL 5:

2

Γ



#### 13a) Different coins are shown below.

1. How many total coins are in the box.	
2. How many pennies are in the cox	
3. How many nicker are in the box?	
4. How many more armes are in the box than nickels?	
5. What coin is there the least of in the box?	
6. How many less nickels are there than pennies?	
7. If you picked a coin without looking, which coin would you most likely pick?	
8. If you picked a coin without looking, which coin would you least likely pick?	
9. How many total dimes and quarters are there?	
10. How many total pennies and nickels are there?	

6

© CLASSROOM COMPLETE



a) The chart below shows the different cats found in a pet store.

			も		
-				-	
Small	Large	Small	Lige	Small	Large
Brown	Brown	Onine	Orange	Black	Black
Cats	Cats	Can	Cats	Cats	Cats

- 1. How many cars are mere in total?
- 2. How many contrare orange?
- 3. How many cats are black?
- 4. How many cats are brown?
- 5. How many cats are small?
- 6. How many cats are large?
- 7. How many cats are small and black?
- 8. How many cats are large and orange?
- 9. Which cat would most likely be chosen?
- 10. Which cat is least likely to be chosen?

#### © CLASSROOM COMPLETE

## **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				NY				
12								
11				V				
10								
9								
8								
7								
6								
5								
4								
3								
2								
1								
	<b>Pickle</b>	Lettuce	Cheese	Tomato	Onion	Mustard	Ketchup	

