# NCTM Process Standards Rubric

### **Measurement – Drill Sheets**

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Review B	> > >	> > >	<b>&gt;</b> >	> >	> > >
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Expectations 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>	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.
	GOAL 1: Brivlo8 məldor¶	GOAL 2: Reasoning & Proof	GOAL 3: Communication	;4: Соппесйопя	GOAL 5: Representation



1a) Using the information in the menu below, create a list of food or drink combinations and list them in the table. Each combination should have three different items. Then, list the total cost for the combination, including a 5% sales tax. Finally, List the amount of change you would get back if you paid each meal with \$10.00.



Fire Station Grill Breakfast Menu							
Bacon (3 strips) = \$1.99	Cereal = \$2.50	Hash browns = \$1.99	Coffee (cup) = \$1.50				
Sausage (2 links) = \$1.50	Oatmeal = \$2.99	Fried hash = \$2.99	Tea (cup) = \$1.50				
Eggs (2) = \$2.00	Pancakes (3) = \$3.00	Cornbread = \$10	Milk = \$1.00				
Toast (2 slices) = \$1.50	Waffles (2) = \$3.00	Muffin = \$1.99	dice = \$1.99				

Ex: Oatmeal, Pancakes, and Muffin   \$8.38   \$1.62	Combo	Cos 5%	Change from \$10.00
ii)	Ex: Oatmeal, Pancakes, and Muffin	\$8.38	\$1.62
iii)	D		
iv) v) vi) vii) viii) ix)	ii)		
v)           vi)           vii)           viii)           ix)			
vi) vii) viii) ix)	iv)		
vii) viii) ix)	v)		
viii) ix)	vi)		
ix)	∨ii)		
	viii)		
x)	ix)		
	x)		



NAME: \_\_

## Review C

a) Convert the following measurements.

i) 
$$1.28 \text{ cm} = \text{mm}$$

iv) 
$$1.025 \, \text{m} = \text{mm}$$

vii) 
$$144 \text{ qt} = \text{gal} \text{ viii) } 1.25 \text{ km} = \text{cm}$$

ix) 
$$40.3 \text{ ft} =$$
 in

$$x) 27.55 kg = ____g$$

x) 
$$27.55 \text{ kg} =$$
 g xi)  $24.5 \text{ ft} =$  yds

$$xiv$$
) 8.25 ft = in

b) Answer the following quick measurement questions.

i) Steven measured the length of time it took for a science experiment to be completed. After three trials, his times were 18.25 seconds, 16.75 seconds, and 15.22 seconds. What was the average time for the experiments to be empleted

ii) A parallelogram has an area of 4.2 sq. in 47 \$\int\_{\text{.}}\$ cm\ \text{Wh} are vo possible base and height measurements?

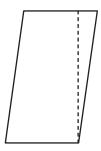
iii) Diego rode a bike for three consent ive Lay: He averaged 25.25 miles (40.6 km) each day. How many total feat me ers) had he traveled after three days?

iv) A rectangular box has a length of inches (8 cm), a width of 2 inches (5 cm), and a height of common (common common common

v) The radius of a circle is 5 inches (12.5 cm). What is the area of the circle?

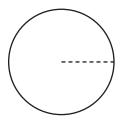
c) Use a ruler to measure the objects below. Find the area, perimeter and circumference for each object.

i)

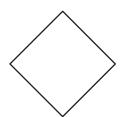


Perimeter =

ii)



iii)



Area = \_\_\_\_\_ Area = \_\_\_\_ Area = \_\_\_\_

Circumference = Perimeter =

### Area of a Circle

Look at the picture of the circle below. Discuss how you can determine the area and perimeter of the circle. Then, in a well developed paragraph, explain how to find the area.

Finally, measure the circle and find the area and perimeter.



#### Things to consider in your answer:

- 1. What measurements will you need?
- 2. What units of measure will you use?
- 3. How do the measurements you need relate to each other?

#### Things to consider in your paragraph:

- 1. Make sure to include a topic sentence and conclusion.
- 2. Make sure your paragraph contains at least five sentences.
- 3. Make sure to use transition words to help explain your work.