## NCTM Content Standards Assessment Rubric

Measurement - Drill Sheets
Student's Name:

|  | Level 1 | Level 2 | Level 3 | Level 4 |
| :---: | :---: | :---: | :---: | :---: |
| Understanding Measurable Attributes of Objects and the Units, Systems, and Processes of Measurement | - Demonstrates a limited understanding of measurable attributes of objects and the units, systems, and processes of measurement | - Demonstrates a basic understanding of meas attributes 9 bje sand e units, ystem and $y$ cesses of $m$ surment | - Demonstrates a good understanding of measurable attributes of objects and the units, systems, and processes of measurement | - Demonstrates a thorough understanding of measurable attributes of objects and the units, systems, and processes of measurement |
| Applying Appropriate Techniques, Tools, and Formulas to Determine Measurements | - Demonstrates limited ability in applying appropriate techniques, tools, and formulas to determine measurements | - Demonstr some ability in applying appropri techniques, tools, and formulas to determin measurements |  | - Demonstrates strong ability in applying appropriate techniques, tools, and formulas to determine measurements |
| STRENGTHS: |  | NESSES: |  |  |

10a) Draw the following shapes described below using a ruler. Then, find the perimeter and area of the shape you have drawn.

i) A square with a side of 1.3 in ( 3 cm ).

Perimeter: $\qquad$
Area:
iii) A square with sides all equal to 1 in ( 2.5 cm ).

Perimeter:


Perimeter: $\qquad$
Area: $\qquad$
vi) A rectangle with a length of $1.6 \mathrm{in}(4 \mathrm{~cm})$ and a width of $1 \mathrm{in}(2.5 \mathrm{~cm})$.
ii) A rectangle with a length of $0.8 \mathrm{in}(2 \mathrm{~cm})$ and a width of $1.3 \mathrm{in}(3 \mathrm{~cm})$.

Perimeter:
) Ar arall bor with all sides
-qual to .3 in ( 3 cm ) and a height f 0.9 in ( 2.3 cm ).

Perimeter: $\qquad$
Area: $\qquad$
vii) An isosceles triangle with two congruent sides of your choice and height of your choice.
Area:
v) An equilateral tria rle th a side of 0.8 in ( 2 cm ) and a height of $0.7 \mathrm{in}(1.7 \mathrm{~cm})$

Perimeter: $\qquad$
Area: $\qquad$
viii) A rectangle where the length is 2 times the width. You may choose the measurements.

Perimeter:
Area: $\qquad$

Perimeter: $\qquad$
Area: $\qquad$

## Review C

## a) Convert the following measurements.

i) $18.3 \mathrm{yd}=$ $\qquad$ ft
ii) $1.28 \mathrm{~cm}=$ $\qquad$ mm
iii) 0.25 tons = $\qquad$ lbs
iv) $1.025 \mathrm{~m}=$ $\qquad$ mm
v) $198 \mathrm{oz}=$ $\qquad$ lbs vi) $7.5 \mathrm{~g}=$ $\qquad$ kg
vii) $144 \mathrm{q}^{\dagger}=$ $\qquad$ gal viii) $1.25 \mathrm{~km}=$ $\qquad$ cm
ix) $40.3 \mathrm{ft}=$ $\qquad$ in
x) $27.55 \mathrm{~kg}=$ $\qquad$ g
xi) $24.5 \mathrm{ft}=$ $\qquad$ yds
xii) $4.25 \mathrm{~km}=$ $\qquad$ m
xiii) $25.25 \mathrm{~g}=$ $\qquad$ mg xiv) $8.25 \mathrm{ft}=$ $\qquad$ in $\quad \mathrm{xv}) 0.028 \mathrm{~kL}=$ $\qquad$ L

## b) Answer the following quick measurement questions.

i) Steven measured the length of time it took for a science experim, it to be completed. After three trials, his times were 18.25 seconds, 16.75 seconds, a 15.27 seconds. What was the average time for the experiments to be eomplete
ii) A parallelogram has an area of 4.2 sq . in 697 cm Nh are possible base and height measurements?
iii) Diego rode a bike for three conse ( 40.6 km) each day. How n
v) The radius of a circleis 5 inches $(12.5 \mathrm{~cm})$. 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)


Area =
Perimeter $=$ $\qquad$
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ii)

Area = $\qquad$ Circumference = $\qquad$
iii)

Area = $\qquad$
Perimeter $=$ $\qquad$

## 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.
