# NCTM Content Standards Assessment Rubric

### **Measurement – Drill Sheets**



3

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Warm-Up Drill Sheet # 2 NAME:



4a) Look at the chart below. It shows the measurements of the sides of a triangle.
Determine the perimeter of each triangle.
Then, find the perimeter of each triangle if the measurements of each side are doubled.



Triangle	Side 1	Side 2 (base)	Side 3	Height	Perimeter	Perimeter if sizes are doubled
i)	3 in (7.5 cm)	6 in (15 cm)	8 in (20 cm)	4 in (10 cm)		
ii)	1.5 in (4 cm)	3.5 in (9 cm)	1.5 in (4 cm)	2.8 in (7 cm)		
iii)	2 in (5 cm)	1.3 in (3 cm)	2.8 in (7 cm)	2 in (5 cm)		
iv)	2 in (5 cm)	7 in (17.8 cm)	12 in (30.5 cm)	3 ir (20 cm)		
V)	2.8 in (7 cm)	5 in (12.5 cm)	2.5 ° (6 cm)	4.3 in 11 m)		
vi)	2.5 in (6 cm)	1.5 in (4 cm)	3.3 il (( 5 c) )	1.8 in (4.5 cm)		
vii)	2.2 in (5.5 cm)	1.5 in ⊶ sm)	4., 'n (12.,m)	3.7 in (9.5 cm)		
viii)	3 in (7.5 cm)	7 in (1 2 m	on (20 cm)	3 in (7.5 cm)		
ix)	1 in (2.5 cm,	2.3 n ( cm)	1.3 in (3 cm)	3 in (7.5 cm)		
x)	1.5 in (4 cm)		2.5 in (6 cm)	3.2 in (8 cm)		
xi)	3 in (7.5 cm)	6 in (15 cm)	10 in (25.5 cm)	5 in (12.5 cm)		
xii)	1.5 in (4 cm)	3.7 in (9.5 cm)	4.7 in (12 cm)	3.5 in (9 cm)		
xiii)	3.5 in (9 cm)	1.8 in (4.5 cm)	3.2 in (8 cm)	2.5 in (6 cm)		
xi∨)	3 in (7.5 cm)	7.5 in (19 cm)	3 in (7.5 cm)	5 in (12.5 cm)		
xv)	6 in (15 cm)	9 in (23 cm)	12 in (30.5 cm)	5 in (12.5 cm)		



Redo the activity above by finding the area of each triangle. Then, find the area of each triangle if the measurements of each side and height are doubled.

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### Review Sheet **Review** A a) Convert the following measurements. ii) 480 mm = \_\_\_\_\_ cm iii) 176 oz = \_\_\_\_\_ lbs i) 20 ft = \_\_\_\_\_ in iv) 500 m = km v) 72 ft = yd vi) 7.5 kL = L vii) 128 qts = \_\_\_\_\_ gallons viii) 2.5 m = \_\_\_\_\_ cm ix) 45 ft = \_\_\_\_\_ yd x) 7 km = \_\_\_\_\_ mm xi) 4.5 cup = \_\_\_\_\_ pt xii) 12 L = mL xiii) 18.5 ft = in xiv) 29.7 g = mg xv) 25 lbs = oz b) Answer the following quick measurement questions. i) Jaime measured the temperature of a warm liquid. The temperature started at 72°F (22°C) and dropped 2.5 degrees every minute for three minutes. What v me temperature of the liquid after 3 minutes? ii) A rectangle had an area of 2.5 square incher (16 scharter). What are two possible combinations for the length and width o e Netangle? iii) Tyrone ran a 5 mile (8 km) se. Ho al teet (meters) did he run?

any pounds (kilograms) does it weigh? iv) If a car weighs 7 5 tons, how

v) A triangle has a base of inches (150 mm) and a height of 1 inch (25.5 mm). What is the area of the triangle?

vi) What is the perimeter of a square with a side measuring 3.5 inches (9 cm)?

#### c) Use a ruler to measure the objects below. Find the area for each object.



# To Scale

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Think about the layout of your school. In small groups, draw a map of your entire school to scale. If possible, work with others to determine the perimeter measurements of your school, as well as interior measurements. Then, working with a teacher or adult, complete the following.

- Select a scale in which to draw your map. For example, 1 inch (1 cm) on your map may equal 10 feet (1.2 meters) in your school. Label the scale on your drawing.
- Draw the perimeter of your school first. Make sure to label the perimeter on your map.
- Draw interior rooms on your map.
- Label the area of your school.
- Identify your classroom. Label the area of your classroom.
- Label important structures in your school.
- Find the perimeter of another room in your school. Make sure you be ye permission first.

When done, compare your drawings with those captur classmate. Which scale was easiest to work with? Which scale was most durcult? Which complications arose in the development of the map?

First, as a class, draw the knyout of hour classroom below.

