## Process Standards Rubric <br> Measurement

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## Task Sheet 1

## Touch The Sky

1) Stephanie is editing the tenth edition of World's Tallest Buildings. As part of her job, she needs to convert the following heights of the several skyscrapers from feet to meters. Look at the table below and then help her convert the building heights from feet to meters.

| Building | Height in Feet | Height in Meters |
| :--- | :--- | :--- |
| Willis Tower | 1450 (Chicago) |  |
| Citic Plaza | 1283 (China) |  |
| Empire State Building | 1250 (New York) |  |
| Central Plaza | 1227 (Hong Kong) |  |
| Emirates Tower One | 1165 (U.A.E) |  |
| John Hancock Center | 1127 (Chid |  |
| Chrysler Building | 10 |  |
| Bank of America Plaza | 1023 Atro |  |
| Library Towe |  |  |
| Commerzba |  |  |



Building One:
Building Two:
Building Three: $\qquad$

Use the Internet to find information about other famous skyscrapers throughout the world. Find three other buildings that could be added to this list above. List the buildings below, and write their height in feet and meters.

## Drill Sheet 1

## Conversions

| a) | $1.5 \mathrm{~m}=$ | cm | $27 \mathrm{ft}=$ | yards | 180 in = | ft |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $2.5 \mathrm{Oz}=$ | Ibs | $2.5 \mathrm{~g}=$ | mg | .25 ton $=$ | Ibs |
|  | 4 cups = | pints | $330 \mathrm{~L}=$ | kL | 2 gallons = | quarts |
|  | $18 \mathrm{ft}=$ | yds | $2.5 \mathrm{~km}=$ | m | $27 \mathrm{yd}=$ | in |

## Area and Perimeter

Look carefully at the three figures below. Calculate the area measurements provided.

b) Area:

-مerimeter using the

Perimeter:

## Short Answers

e) What is the volume of a tank with a length of 4 feet ( 1 meter), width of 5 feet ( 2 meters), and a height of 3 feet ( 0.9 meters)?
f) What temperature is $20^{\circ}$ below the boiling point on the Fahrenheit (Celsius) scale?
g) An angle that is four-fifths the size of a right triangle would be this many degrees.
h) What is the formula for finding the area of a circle?
i) How many meters (feet) are in a 5 km (3 mile) race?

## Money, Money, Money - ○○○○ ○○○○○○ •○○○

You have been assigned to work with a design committee to create a new denomination of coin or bill. Your task is to complete the following tasks as you prepare to release the newest denomination within the year.
a) Determine which new denomination of coin or bill would be useful to the public.

b) Create a name for this new denomination.
c) Explain why this new denomin : consumers.
d) Seleci thear on the front of the new or bill. This person should eea figure from history who had a positive impact. Explain in uils person should appear on a unit of currency.
e) Design the new coin or bill and how it would look.
f) Unveil the new design for your classmates. Show ten ways it can be combined with other denominations to make change (for example if you invented the nickel, \$1.00 + a nickel = \$1.05).

