

## Create a Map Scale for THS!

*And practice some unit conversions too!*

Attached is a copy of an architectural diagram of our area of THS. With your team, the goal of this activity is to figure out 2 things:

1. Is the map scaled correctly?
2. What is the scale?

### Procedure:

1. Pick two places on the diagram that you are going to measure in REAL life!  
(ex. distance between 2 walls)
2. Go to those places with your team and measure, in **meters** (and convert to cm), the length of those 2 spots in real life.

(REAL)

Distance 1: From \_\_\_\_\_  
to \_\_\_\_\_  
= \_\_\_\_\_ m  
= \_\_\_\_\_ cm

(REAL)

Distance 2: From \_\_\_\_\_  
to \_\_\_\_\_  
= \_\_\_\_\_ m  
= \_\_\_\_\_ cm

3. Identify those 2 places on the map and measure, in centimeters, the distance between those 2 spots on the map.

(MAP)

Distance 1: = \_\_\_\_\_ cm

(MAP)

Distance 2: = \_\_\_\_\_ cm

4. Now you will determine if the map is scaled correctly by seeing if the **ratios** of the REAL numbers to MAP numbers are the same.

Distance 1: (REAL)  $\div$  (MAP)  
= \_\_\_\_\_ cm  $\div$  \_\_\_\_\_ cm  
= \_\_\_\_\_

Distance 2: (REAL)  $\div$  (MAP)  
= \_\_\_\_\_ cm  $\div$  \_\_\_\_\_ cm  
= \_\_\_\_\_

5. Do the ratios match each other?
6. Is the map scaled correctly? \_\_\_\_\_ (yes/no)

The scale of this map is \_\_\_\_\_ cm in REAL life = \_\_\_\_\_ cm on the MAP.

