

## Math 7 - Unit 5

## Day 7 - MORE Scale Drawings

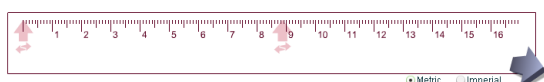
## Lesson Objectives:

- I can solve problems involving scale drawings of geometric figures.
- I can compute actual lengths and areas from a scale drawing.
- I can recreate a scale drawing at a different scale.

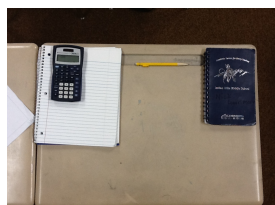
Today you are going to create your own scale drawings. You may represent objects with simple shapes rather than drawing out all of the details, if you prefer. But please be as accurate as you can be with your measurements.

## Shrink your desktop into a scale drawing.

1. Use centimeter measure.



2. Place a pencil/pen, your student planner, and two other objects on your desktop.



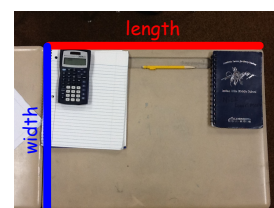
## Shrink your desktop into a scale drawing.

3. Measure the length and width of your desk.

4. Measure the length and width of your pencil.

Measure the length and width of object #3.

Measure the length and width of object #4.



\*Hint\* Length means "long".  
Width means "wide".

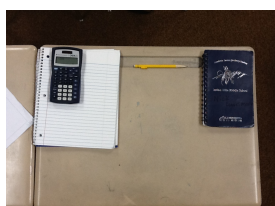
## Shrink your desktop into a scale drawing.

5. Today we're using centimeter graph paper. We're going to let one centimeter on the graph paper represent 3 centimeters in real life.

Write the scale.

$$1 \text{ cm} = 3 \text{ cm}$$

Picture = real life



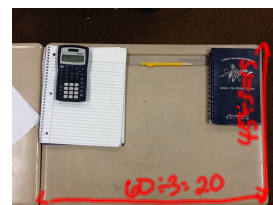
$$\frac{1 \text{ cm}}{3 \text{ cm}} = \frac{1}{3} \text{ scale factor}$$

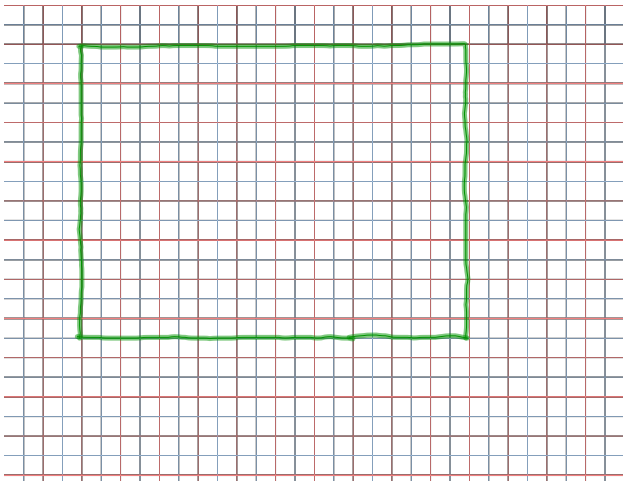
## Shrink your desktop into a scale drawing.

6. Using the scale ~~and a proportion~~ find the dimension for each object. Record the scale drawing dimensions on your paper.

7. Draw the scale drawing of your desk, planner, pencil, and other objects.

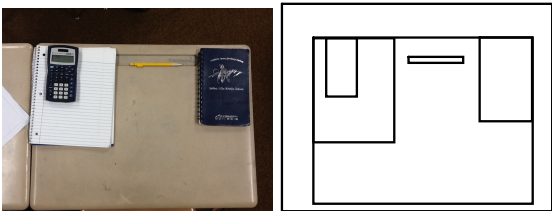
8. Record the scale on your scale drawing.





Shrink your desktop into a scale drawing.

Your scale drawing should look A LOT like your desk would if you were to take a picture.



9. Explain how you determined the positions of the objects in your drawing.

Homework

Scale Drawing of a Room at Home

\* Individual Think Time \*



- What to do if you get stuck...
- 1. Reread the problem. Did you write it down correctly?
  - 2. Reread your notes. Is there a problem similar that we did together in class?
  - 3. Find a problem similar in your book. Try this one to see if it helps.
  - 4. Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

