

3rd Quarter Geometry Project - Scale Drawing

Name _____

This project will be done at home, where each student will work on her/his own, no partners or groups. There are two parts to this project, and you are required to do BOTH of them. This project is worth 20% of your quarterly grade. A grading rubric is attached to this paper. You must grade your own project under the 'self column' of the rubric, and turn this in with your project.

Part 1:

You are going to make a scale drawing of your room. You will measure the dimensions of your room in your house, and the dimensions of at least 7 objects in the room, that are examples of at least 3 different types of geometric figures (See page 43 of your textbook.). You will then pick a reasonable scale and draw an aerial view sketch of your room (like blueprints). These pictures will be presented in the classroom, so you may want to color them and make them look nice. Graph paper can be helpful in the making of the drawings, but your final picture may not be on graph paper. If you do your picture on graph paper, you must trace it on to plain white paper. Your "deliverable" must include your room, at least 7 objects with 3 variations of polygons, and the scale factor you used.

On a separate sheet of paper, you must include the work you did to make your drawing. This paper must show the real dimensions of everything you have drawn, and how you found the scale dimensions for each object. On this sheet you also must explain, "How did you pick your scale factor?"

Part 2:

The second part of this project is the reflection (not the Harpo Marx kind! :-). For the reflection, answer all the following questions completely and thoroughly:

- Which part of this project was the easiest for me, and why?
- Which part was the most challenging for me and why?
- How did I determine which objects to portray in my drawing?
- Why might you want to make a scale drawing of your room?
- Where might scale drawings be used in real life?
- What did I like most about this project.
- If I had to do this project again, what would I do differently?
- If I were making this project, what would I change?

GRADING RUBRIC
Possible Points: 50

Self

Teacher

PART I

Scale Drawing Picture:

- Includes at least 7 items (2 pts.)
 - Includes 3 different polygons (3 pts.)
 - Good scale chosen (3 pts.)
 - Scale correctly used (5 pts.)
 - Appearance (4 pts.)
-

17

Written "Key" & Explanations:

- All work shown (3 pts.)
 - All work is correct (5 pts.)
 - All work is explained (5 pts.)
 - Explanation for scale factor (3 pts.)
-

16

PART II

Reflection (2 pts. each)

- Question #1
 - Question #2
 - Question #3
 - Question #4
 - Question #5
 - Question #6
 - Question #7
 - Question #8
-

16

+ 1

Total