

Create a drawing or painting, rigorously using proportion (this of course means you do the calculations before you do much drawing!). Write an accompanying page or so which begins by describing in broad terms what you are trying to do mathematically, and which then goes in to considerably more detail, with all the appropriate calculations.

Some suggestions:

- You may want to use one of the systems of proportions we've learned about – the Vitruvian system, the Modulor, a system of harmonic proportions, or the Sacred Cut system.
- The most obvious way to do this project is to draw two or more versions of the same object, in differing sizes.
  1. One approach would be to have the objects diminish in size by some sort of logical progression of proportions: the second object is half the size of the first in every facet, the third is a third (or a fourth) the size of the first in every facet, the fourth (should you choose to draw so many) is a fourth (or an eighth) the size of the first in every facet, etc.
  2. Another approach would be to draw your original object, and then to purposely use radically different proportions for each facet to distort the object. Doubling the head, quadrupling the arms, etc.
  3. You could just have a series of objects, or you could draw a picture within a picture.

Be careful – remember to use ratios, not differences AND remember to either be consistent or to explain the idea behind being inconsistent AND remember to show all your calculations in a well-labeled and easy to follow way.

And finally, remember – the more deeply and thoroughly you incorporate math into the work, the more points you will receive.