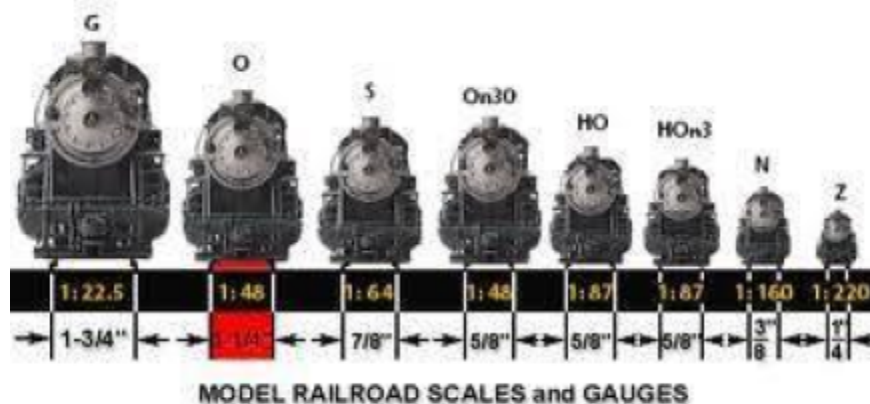


Dollhouses are often done in a scale that is called 1/12. It means for every 12 inches an object is in real life it will be 1 inch in the dollhouse. There are some dollhouses that are smaller and done in a scale that is called 1/24 or sometimes 1/2 scale. For every 24 inches (or 2 feet) in real life the object is 1 inch in this scale. In the photo below there are two loveseats each in one of these scales.



There are other scales in crafts and play as well. For example, Barbies or fashion dolls are 1/6 scale or for every 6 inches in life they are 1 inch and American Girl dolls or other 18-inch dolls are 1/3 scale or for every 3 inches in life they are 1 inch. Model trains have their own scales as well. Can you understand the scales in this photo?



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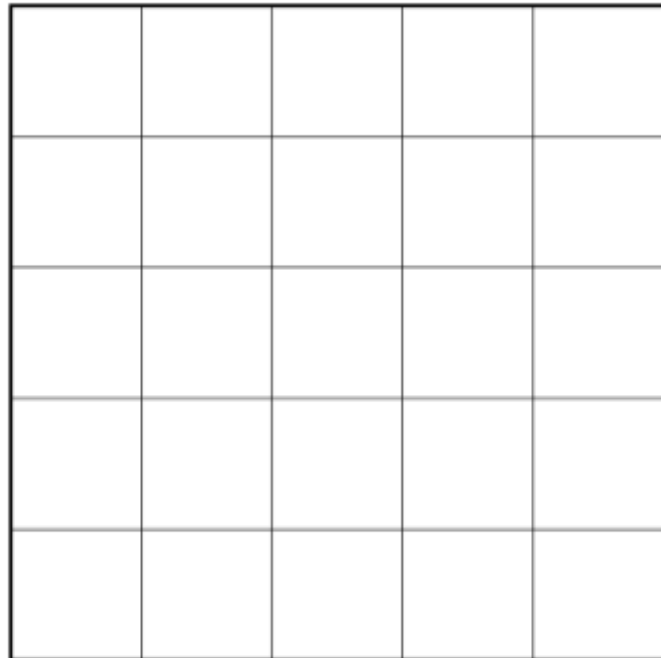
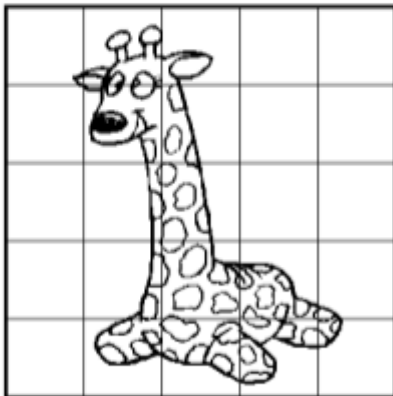
### Project Option 1:

- 1) Choose a piece of furniture to use in this project. Measure it in inches. Draw a drawing of it with the measurements on it. Making sure to show all pertinent measurements and sides.
- 2) Choose a scale listed above (either doll or train). Calculate the dimensions of the object in this scale. Draw an accurate orthographic drawing in this scale. (Yes, you need to have accurate measurements!)

Another way scaling is used is to enlarge or shrink a picture. One technique is to draw a grid over the original picture (think 1-inch grid or 1-cm grid) and then draw a scaled grid on the paper you want to draw or paint the new picture on (or you can have the grid on a page underneath where you are doing your picture. Then you try to draw or paint the portion of the picture in the matching grid. You can see the idea in the picture below.

# Drawing

Can YOU COPY the  
PICTURE?



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## Project Option 2:

Choose a picture or candy wrapper. Draw a 1-inch or 1-cm grid over it. Then enlarge it to a scale of your choice. I will need to see the new grid and you need to tell me the scale.