



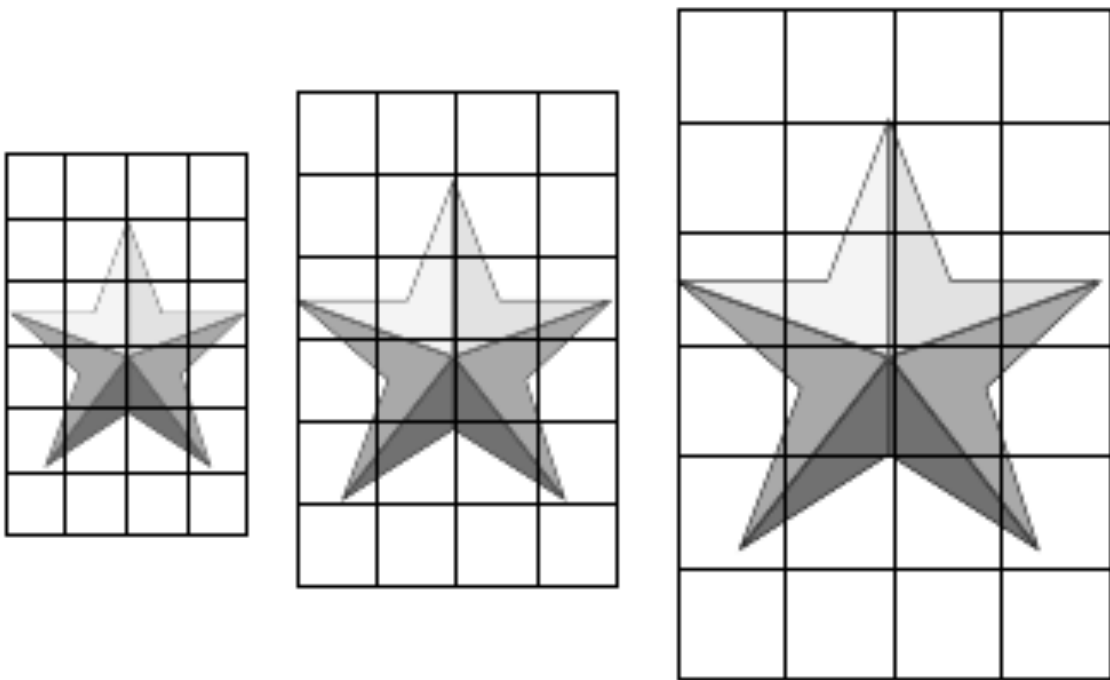
Design out the box



Scaling and Modelling

CONTEXT

Sometimes when someone designs an object they may wish to make a model before they make the full size object. This is true of things such as motor cars, buildings, boats, bridges and many other large structures. It is far too expensive to build a mock up of a skyscraper to see if it looks right! However, a designer might want to make a larger than life model in the case of a very small object, such as a hearing aid, so that they can see how the parts fit together and decide if improvements can be made. When a model is made it is useful to know the scale of the model i.e. how many times smaller or larger the model is than the real thing.



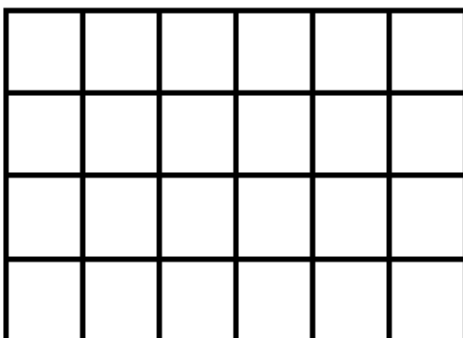
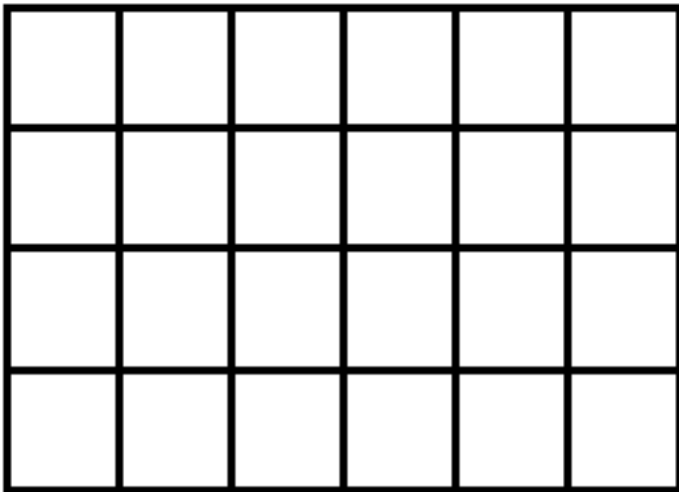
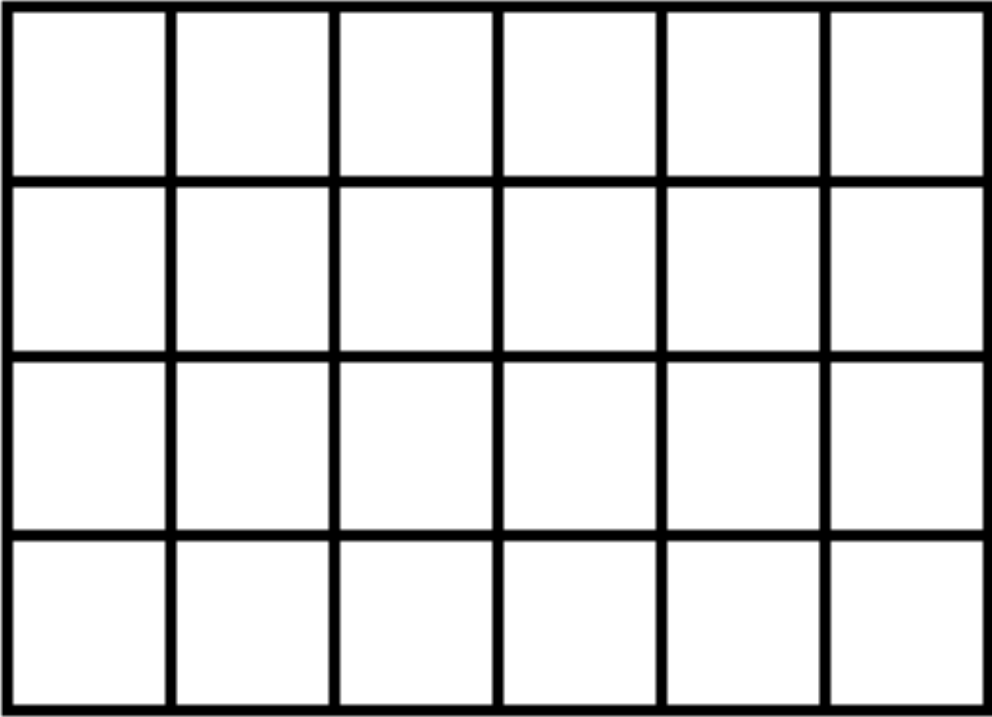
DESIGN TASK

- Use the grid sheet and paper clips provided to trace out three different sized grids.
- Pick a shape or design from the back of this sheet and copy or trace into the middle sized grid.
- Now scale up and down into the other two grids using the squares in the grids to help you.
- When you finish repeat the process, this time choosing a more difficult design.
- Now have a go doing your own shape or design this time adding some colour.



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GRID SHEET FOR TRACING





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