

Workcard

Level: 4

Strand: Measurement

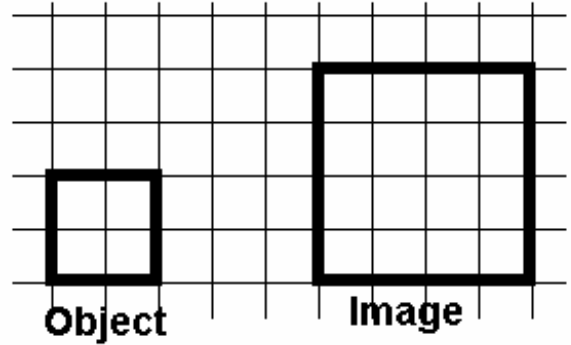
Substrand: Indirect Measurement

Scale Factor

Draw an Image that has a scale factor of 2:1 from the original (object)

2:1 that the lines of the image are 2 times the length of the original object.

Take this for example

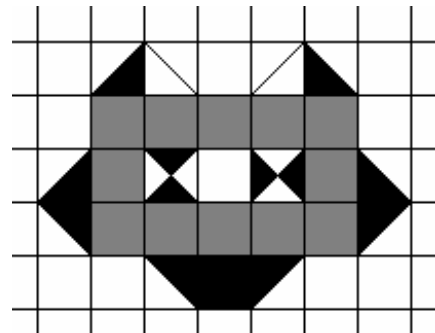
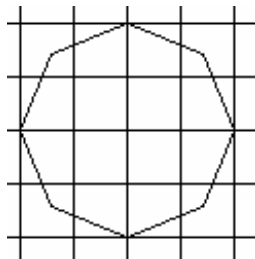


Now draw images of these objects using the given scale factor. Draw the object first and then the image on a piece of 1cm graph paper.

2:1

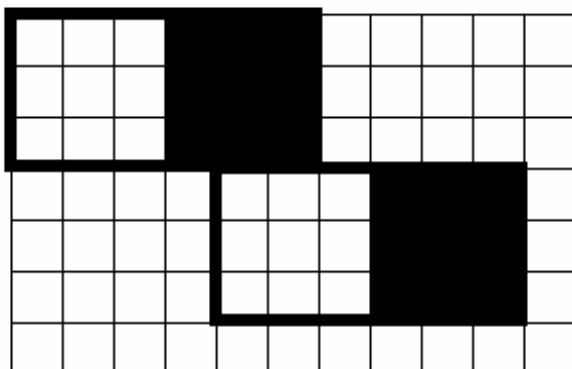
3:1

2:1



Draw 5 more objects and their images. Write down their scale factors.

Choose your most complex drawing with both object and image to present to the teacher. Make sure the scale factor is clearly displayed.



Reducing Images

Draw the image of this object with a scale factor of 1:3

(check with your teacher to make sure you are correct)

Draw 3 more objects and images with a scale factor of 1:2 , 1:3 and 1:5

Reflection

What is the difference between a scale factor of 1:10 and one of 10:1 (draw sketches to explain your answer? (hand your reflection with your drawing into the teacher)