Enlargements

The **centre of enlargement** is the point from which the enlargement is constructed.

The scale factor, **k**, is the number by which the object is enlarged.

Scale Factor(\mathbf{k}) = $\frac{Image Length}{Object Length}$

(The image length over the object length will give us the scale factor)

If the scale factor is greater than one, k > 1, the figure will be enlarged. If the scale factor is less than one k < 1, the figure will be reduced.

Image Area = $k^2 \times Object Area$

When a figure is enlarged by a scale factor of k the image figure is enlarged by a scale factor of k^2

Image Volume = $k^3 \times Object$ Volume

When a figure is enlarged by a scale factor of k the volume of the enlarged figure is enlarged by a scale factor of k^2

