## *

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


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 $k^{2}$

