## (1) Key Terms

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| Centre of <br> Enlargement The point from which an enlargement is <br> made. <br> Scale Factor The value used to multiply or divide a <br> shape's dimensions during the process of <br> enlargement. <br> Enlargement Making a shape bigger or smaller. <br> Hypotenuse The longest side in a right angled triangle. <br> It is always opposite the right angle. <br> Square Root The inverse operation of squaring a <br> number. For example, v16 = 4 and $\mathbf{4}^{2}=16$ <br> Corresponding Means a matching pair. |

## (4) Linear Scale Factor



Scale Factor $=\frac{24}{12}=2$

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(2) Pythagoras' Theorem


The square of the hypotenuse of a right-angled triangle is equal to the sum of the squares of the other sides.

(5) Enlargement


The ratio of the sides of shape $A$ to shape $B$ is $\mathbf{1 : 3}$. The size of each of the corresponding angles remain the same.

## (3) Similar Shapes



Shape $\mathbf{A}$ is similar to shape $\mathbf{B}, \mathbf{C}$ and $\mathbf{E}$. 1) The side lengths are in the same ratio. 2) All corresponding angles are equal. 3) They are enlargements.


## (6) Enlargement from a Point



