Pythagoras' Theorem, Enlargement and Similarity

(1) Key Terms		(2) Pythagoras' Theorem	(3) Similar Shap
Centre of Enlargement Scale Factor	The point from which an enlargement is made. The value used to multiply or divide a	The square of the hypotenuse of a right-angled triangle is equal to the sum of the squares of the other sides.	
	shape's dimensions during the process of enlargement .		3)
Enlargement	Making a shape bigger or smaller .	a hypotenuse	
Hypotenuse	The longest side in a right angled triangle. It is <u>always</u> opposite the right angle.	16 b $a^2 + b^2 = hyp^2$	
Square Root	The inverse operation of squaring a number. For example, V16 = 4 and 4² = 16		
Corresponding	Means a matching pair.	$3^2 + 4^2 = 5^2$	
(4) Linear Scale Factor		(5) Enlargement	(6) Enlargement
Scale Fa	8cm 103° 128° ? cm	1 cm 3 cm 1 cm B 3 cm 2 cm 6 cm x 3 To enlarge shape A by scale factor 3. Multiply all the dimensions of the sides of the shape by 3.	To describe an E point, you need The Centre The Scale I
Trinity TV For more help, visit Trinity T V		The ratio of the sides of <i>shape A</i> to <i>shape B</i> is 1:3 . The size of each of the corresponding angles remain the	3 2 1

same.

Year 9

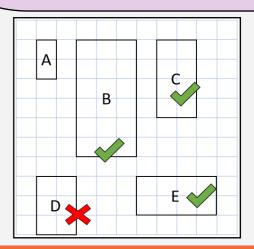
Term 5





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- Shape **A** is similar to shape **B**, **C** and **E**.
- .) The side lengths are in the same ratio.
-) All corresponding **angles are equal**.
-) They are **enlargements**.



nt from a Point

- Enlargement from a
- ed to know:
- re of Enlargement (2,1)
- e Factor (SF = 2)

