# Ratio and Proportion

## Scale Factors

**6a. Jake says,**



A scale factor of 3.5 means you multiply each side of the original shape by 3.5.

Is he correct?

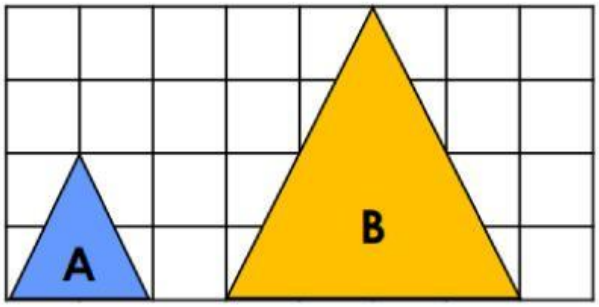
**6b. Hannah says,**



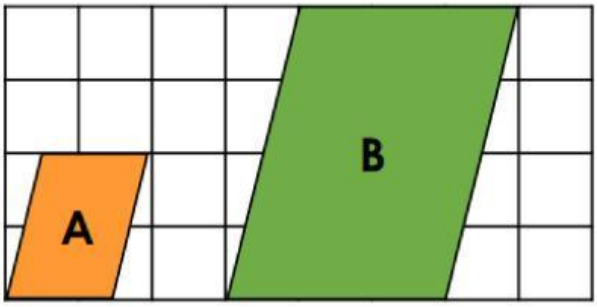
Only one side of a shape is enlarged when using a scale factor.

Is she correct?

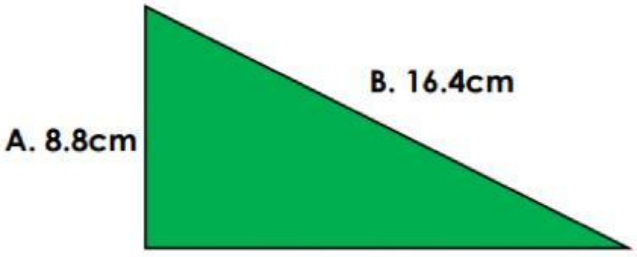
**8a. True or false?**
Shape A has increased by a scale factor of 2 to create shape B.




**8b. True or false?**
Shape A has increased by a scale factor of 2.5 to create shape B.

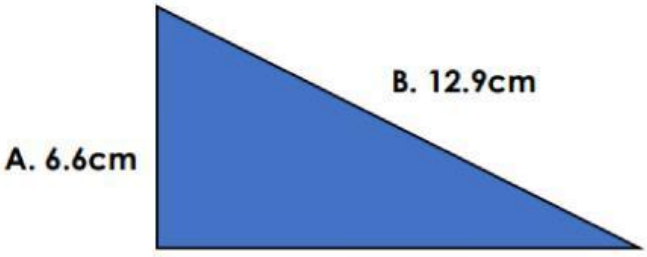



**6a. This triangle was enlarged by a scale factor of four.**




What were the measurements of the original triangle?

**6b. This triangle was enlarged by a scale factor of three.**




What were the measurements of the original triangle?

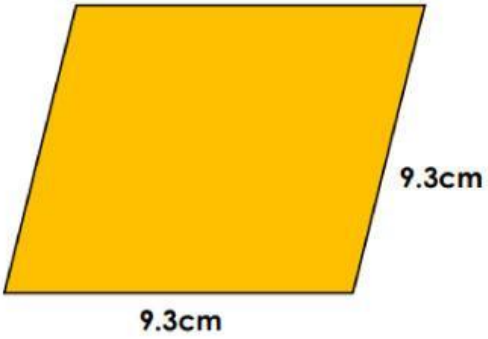
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**4a. This shape has been enlarged by a scale factor of 4. Find the perimeter of the original shape.**




*Not to scale*

**4b. This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.**

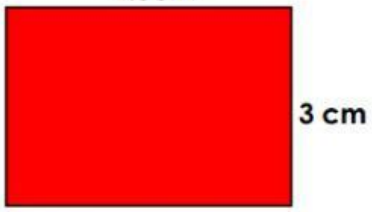



*Not to scale*

**5a. Mohammad says,**



If I enlarge the shape by a scale factor of 4, the new perimeter will be 58.4cm.



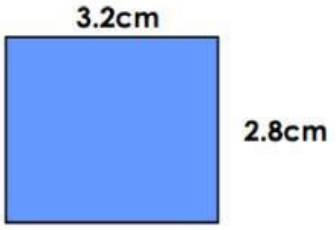

**Is he correct? Explain your answer.**

*Not to scale*

**5b. Ciara says,**



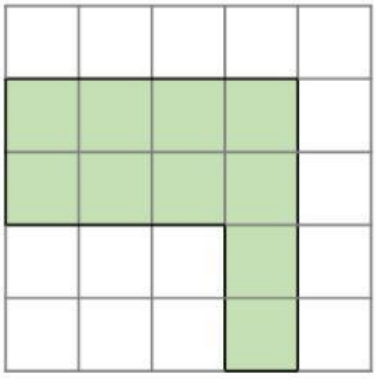
If I enlarge the shape by a scale factor of 4, the new perimeter would be 60cm.



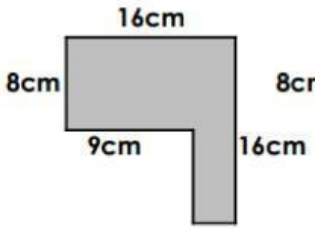

**Is she correct? Explain your answer.**

*Not to scale*

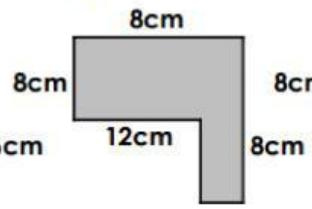
**4. If the shape below (drawn on 1cm² paper) was enlarged by a scale factor of 4, what would its new measurements be? Tick the correct option.**



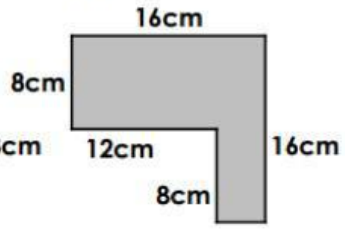
**A.**




**B.**




**C.**




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