

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,

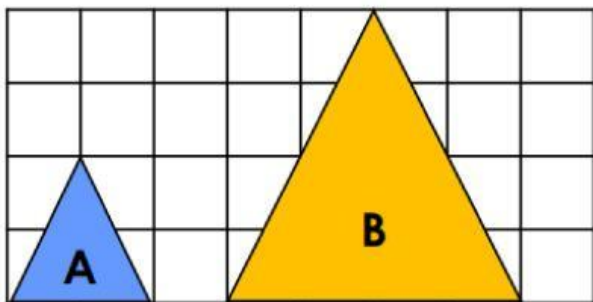


Only one side of a shape is enlarged when using a scale factor.

Is she correct?

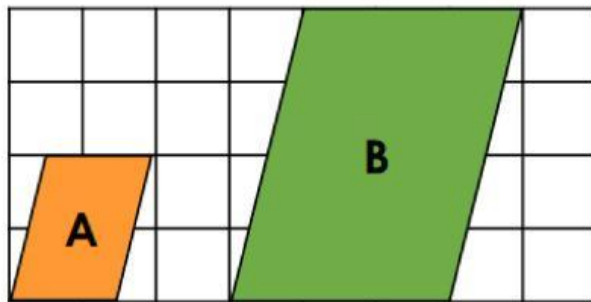
8a. True or false?

Shape A has increased by a scale factor of 2 to create shape B.

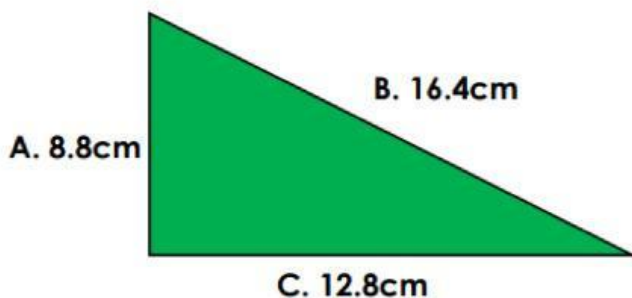


8b. True or false?

Shape A has increased by a scale factor of 2.5 to create shape B.

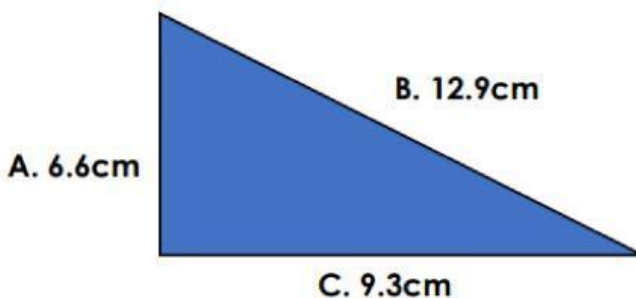


6a. This triangle was enlarged by a scale factor of four.



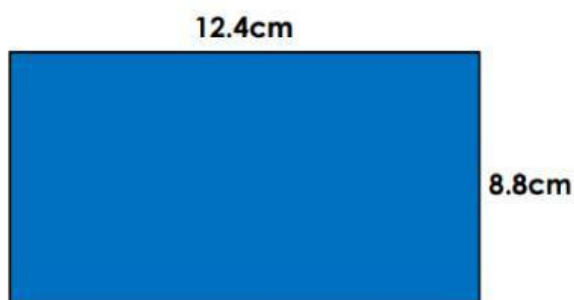
What were the measurements of the original triangle?

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



What were the measurements of the original triangle?

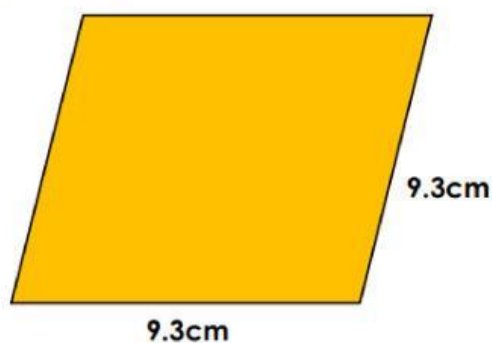
4a. This shape has been enlarged by a scale factor of 4. Find the perimeter of the original shape.



Not to scale

PS

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



Not to scale

PS

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.



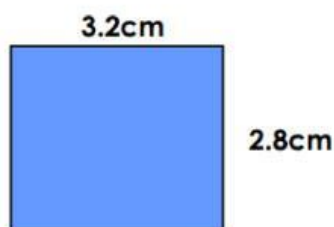
Not to scale

R

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

R

4. If the shape below (drawn on 1cm^2 paper) was enlarged by a scale factor of 4, what would its new measurements be? Tick the correct option.

