

# 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,

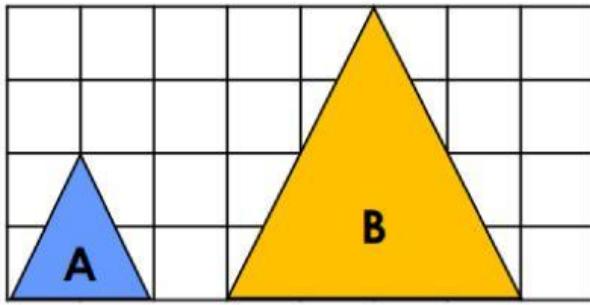


Only one side of a shape is enlarged when using a scale factor.

Is she correct?

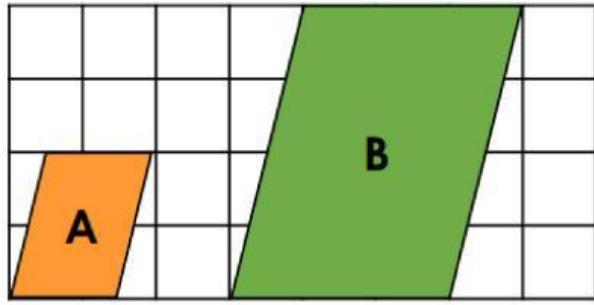
8a. True or false?

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

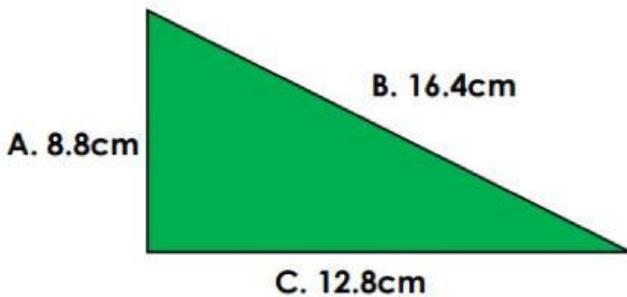


8b. True or false?

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

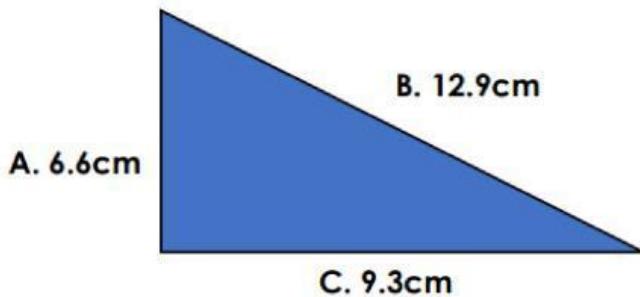


6a. This triangle was enlarged by a scale factor of four.



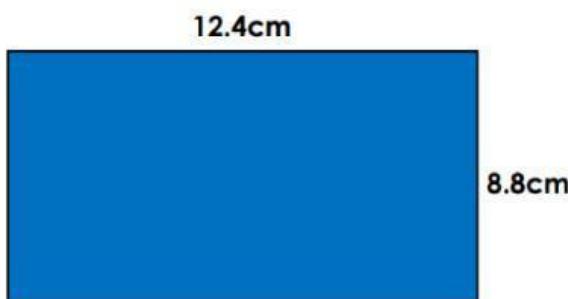
What were the measurements of the original triangle?

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



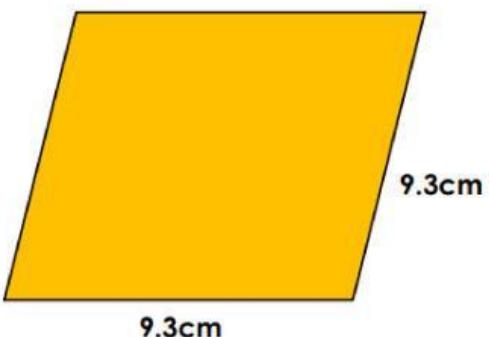
What were the measurements of the original triangle?

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



Not to scale

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



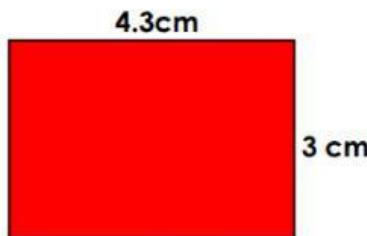
Not to scale

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.

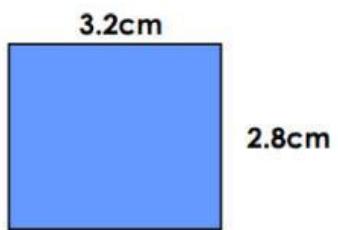


Not to scale

5b. Ciara says,



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



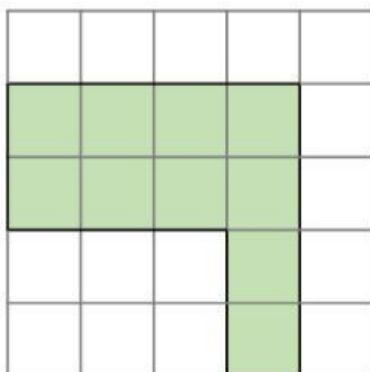
Is she correct? Explain your answer.



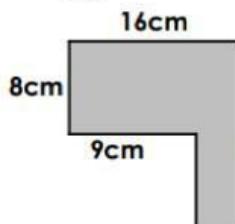
Not to scale

R

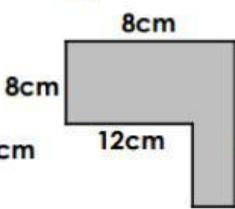
4. If the shape below (drawn on 1cm<sup>2</sup> paper) was enlarged by a scale factor of 4, what would its new measurements be? Tick the correct option.



A.



B.



C.

