Ratio and Proportion

Scale Factors

2a. Rebecca says,



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

Is she correct?

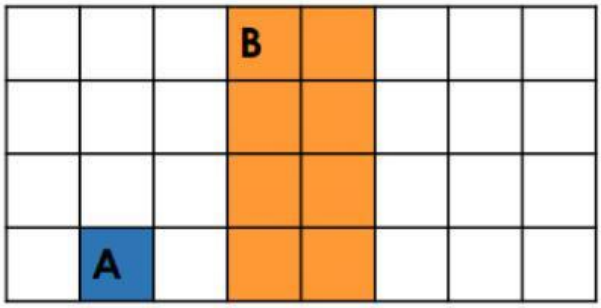
2b. Nasir says,



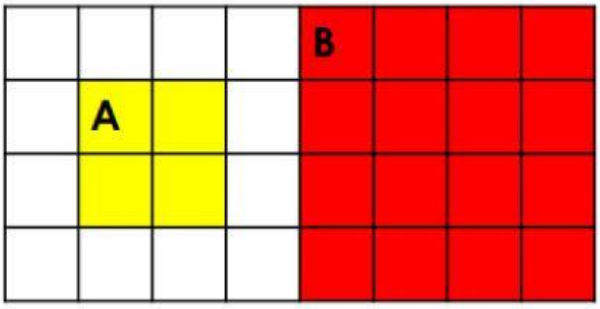
A scale factor of three means the new shape is twice as big as the original shape.

Is he correct?

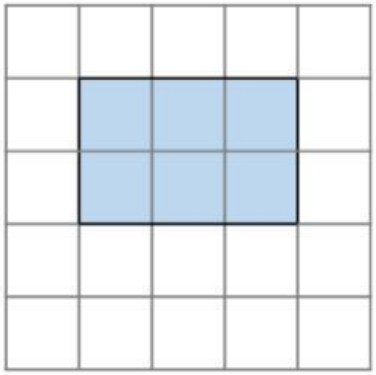
4a. True or false?
Shape A has been increased by a scale factor of 3 to create shape B.



4b. True or false?
Shape A has been increased by a scale factor of 2 to create shape B.



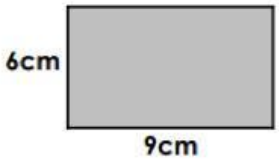
1. If the shape below (drawn on 1cm² paper) was enlarged by a scale factor of 3, what would its new measurements be? Tick the correct option.



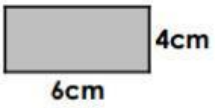
A.



B.

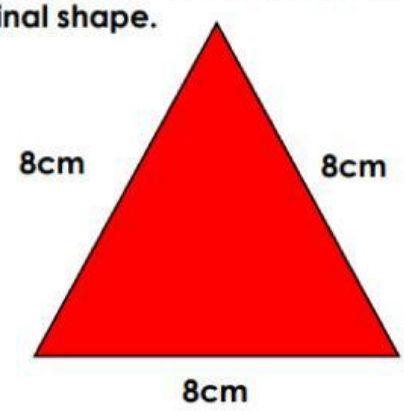


C.

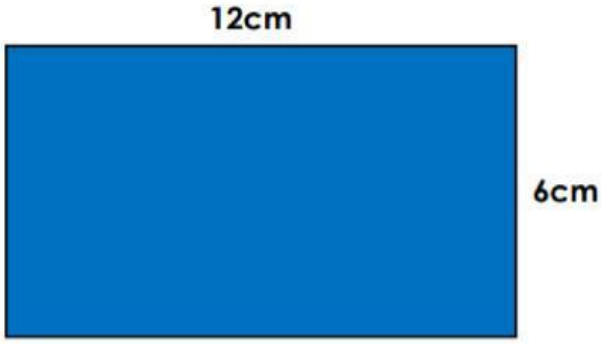


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1a. This shape has been enlarged by a scale factor of 4. Find the perimeter of the original shape.



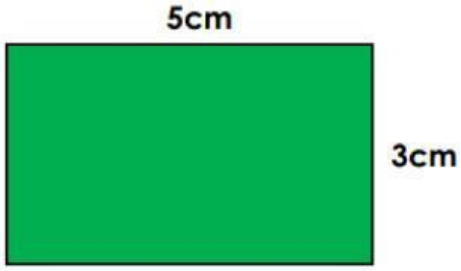
1b. This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.



2a. Sarah says,



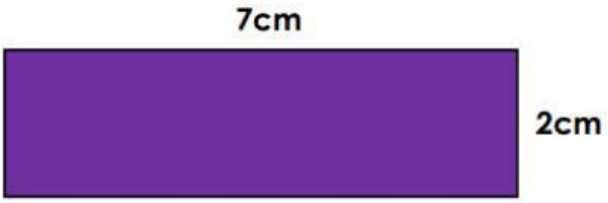
If I enlarge the shape by a scale factor of 2, the new perimeter will be 48cm.



2b. Laurie says,



If I enlarge the shape by a scale factor of 3, the new perimeter will be 54cm.



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