

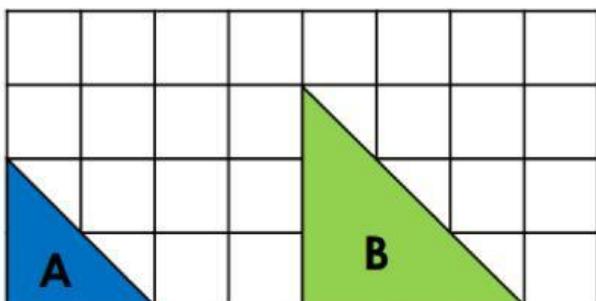


# Ratio and Proportion

## Scale Factors

12a. True or false?

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



7a. This square has been enlarged by a scale factor of 4. Find the perimeter of the original shape.

12.08cm



Not to scale

PS

8a. Ashleigh says,



If I enlarge the shape by a scale factor of 3.5, the new area will be  $112.7\text{cm}^2$ .

4.6cm



2cm

Is she correct? Explain your answer.

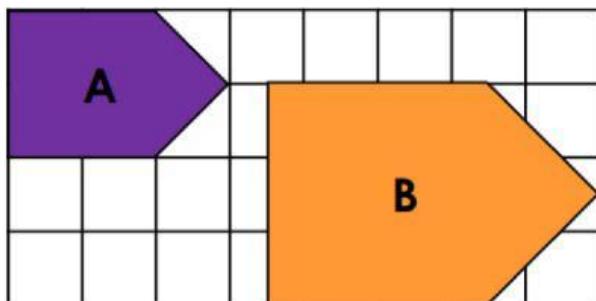


Not to scale

R

12b. True or false?

Shape A has been increased by a scale factor of 1.5 to create shape B.



7b. This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.

9.63cm



7.35cm



Not to scale

PS

8b. Roberto says,



If I enlarge the shape by a scale factor of 2.5, the new area will be  $50.88\text{cm}^2$ .

4.24cm



3cm

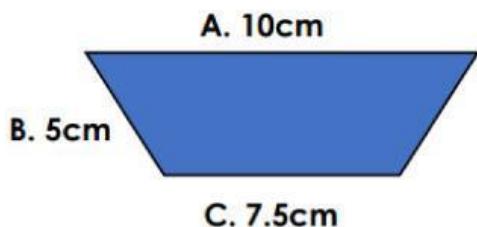
Is he correct? Explain your answer.



Not to scale

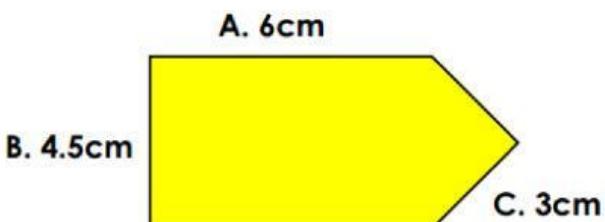
PS

9a. This shape was enlarged by a scale factor of 2.5.



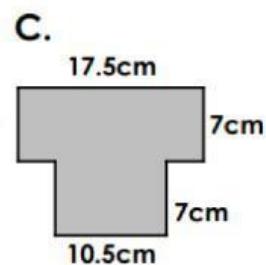
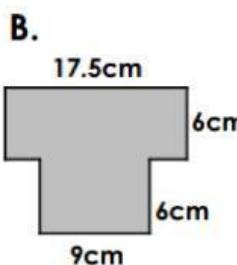
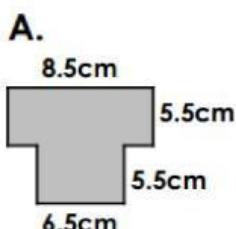
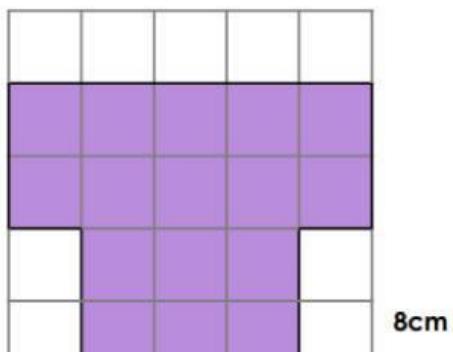
What were the measurements of the original shape?

9b. This shape was enlarged by a scale factor of 1.5.

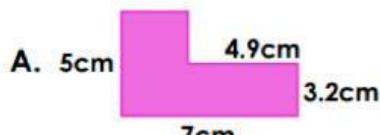


What were the measurements of the original triangle?

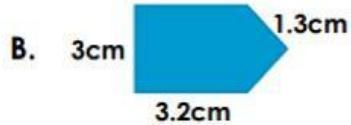
7. If the shape below (drawn on 1cm<sup>2</sup> paper) was enlarged by a scale factor of 3.5, what would its new measurements be? Tick the correct option.



9. Leo is enlarging shapes by different scale factors. He calculates the perimeter each time and records his results on the chart below.



	scale factor 4	scale factor 4.5	scale factor 5.5
Shape A Perimeter	94cm	108cm	132cm
Shape B Perimeter	48cm	54.5cm	66cm



Identify and correct any errors.



not to scale

RPS  
HW/Ext