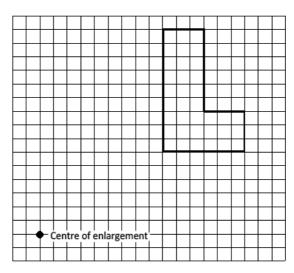
Reducing the logo

This task is about using the centre of enlargement to enlarge a shape.



LM FM is the logo for Loud Music FM. Their logo needs to be reduced to fit into a magazine advertisement.

a) On the grid below, enlarge the letter L by a scale factor of $\frac{1}{3}$ using the marked centre of enlargement.



b) If the whole of the original logo "LM FM" had an area of 108 cm² what would be the area of the smaller logo, given the scale factor is $\frac{1}{3}$?

Q 4 cm ²	
 4 cm² 12 cm² 	
○ 18 cm ²	
Q 36 cm ²	
O 54 cm ²	

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