

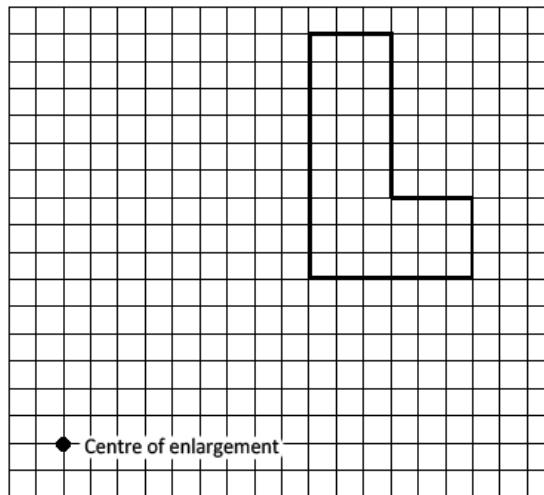
Reducing the logo

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 cm^2 what would be the area of the smaller logo, given the scale factor is $\frac{1}{3}$?

- 4 cm^2
- 12 cm^2
- 18 cm^2
- 36 cm^2
- 54 cm^2