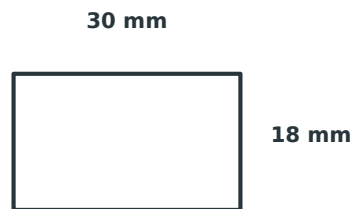


Label enlargement, three to two

A fictional label is 20 x12 mm. Enlarge it at 3:2. Find target size, original area, target area and area scale factor.



Factor $3/2=1.5$. Target 30 x18 mm. Original 240 mm²; target 540 mm². Area factor $(3/2)^2=2.25$.

Use one length factor on both axes. A length factor k gives an area factor k squared only after using compatible area units. Check the intended drawing fits before choosing a scale. This is a classroom diagram, not a building specification.

