



Two clay models of the Statue of Liberty are mathematically similar.



The smaller model has a height of 15cm.

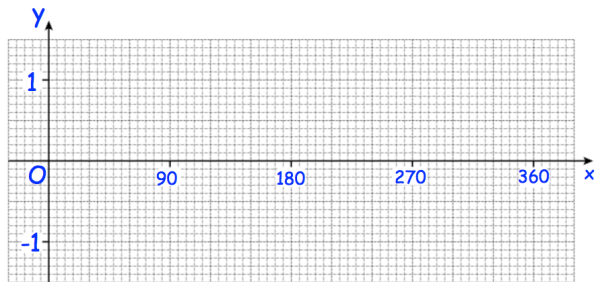
The larger model has a height of 20cm.

The smaller model weighs 108g.

Work out the mass of the larger model.

Write $x^2 - 6x + 17$ in the form $(x - a)^2 + b$

Sketch $y = -\cos x^\circ$



Solve

$$x^2 + y^2 = 36$$

$$\frac{1}{2}x = y + 3$$