

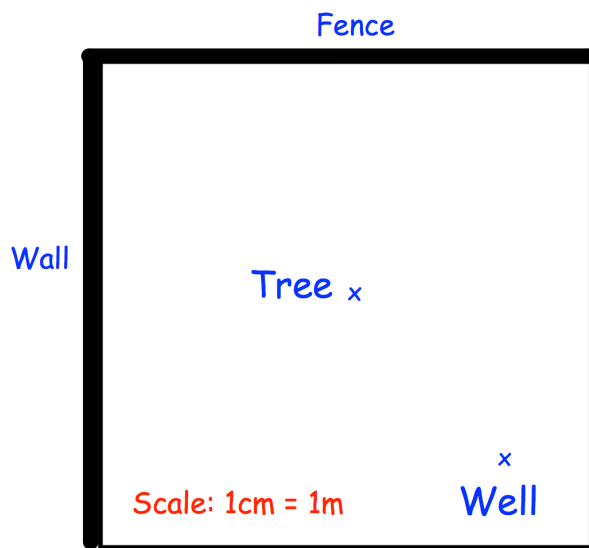


At a university, the ratio of first year students to second year students is 7:5.
 75% of the first year students belong to a club.
 20% of the second year students do not belong to a club.
 What percentage of all the first year and second year students belong to a club?

The length of a song is 182 seconds to the nearest second.
 Elena listens to the song 8 times consecutively.
 Complete the error interval for the time Elena spent listening to the song.

$$\dots\dots\dots \leq t < \dots\dots\dots$$

Olivia is deciding where to place a bench
 Show the possible positions of the bench for the rule
 The bench is an equal distance (equidistant) from the tree and the well.



Factorise
 $y^2 - x^2$

Shape A has an area of 144cm²
 Shape B is similar to Shape A with sides 3 times larger.
 Work out the area of Shape B