Area Extension

Calculate the area of these compound shapes.

a)

7 cm   7 cm

10 cm

4 cm

25 cm

cm^2

b)

14 mm

18 mm   6 mm

5 mm   5 mm

mm^2
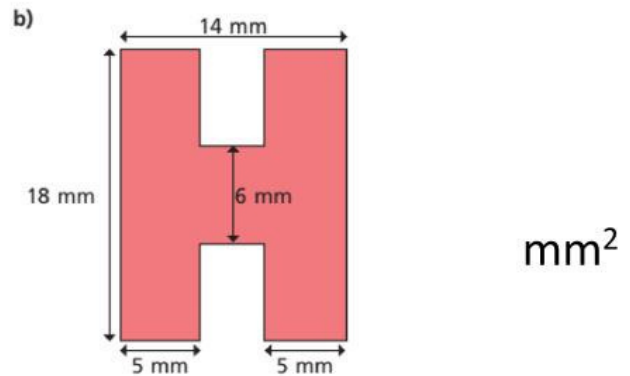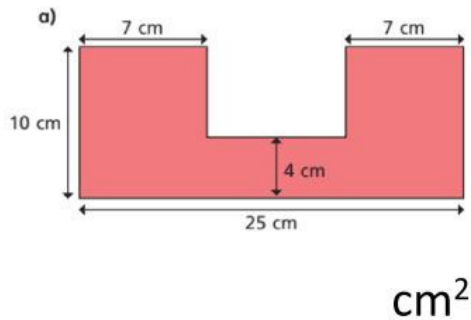
Samantha is planning to tile her rectangular kitchen floor. The length of her kitchen is 6 meters, and the width is 4 meters. Each square tile measures 0.5 meters by 0.5 meters. How many tiles will Samantha need to cover her entire kitchen floor?

tiles

A rectangular swimming pool has a length of 12 meters and a width of 8 meters. The pool is surrounded by a tiled pathway that is 2 meters wide on all sides. What is the total area of the pool and the pathway combined?

m^2

A farmer has 60 metres of perimeter fencing.

For every 1 m² he can keep 1 chicken.

How can he arrange his fence so that the enclosed area gives him the greatest area?