

Converting Units of Area and Volume

(a)	(b)	(c)
Which is the greater area? 5000 mm^2 or 5 cm^2	A rectangle measures 6 cm by 5 cm . Find the area of the rectangle: (i) in cm^2 (ii) in mm^2	Which is the greater volume? 0.08 m^3 or 8000 cm^3
(d)	(e)	(f)
A fish tank has dimensions 80 cm by 60 cm by 35 cm . It is filled with water. How many litres of water does it contain?	A cube has side length 6 cm . Find the volume of the cube: (i) in cm^3 (ii) in m^3	A kitchen floor has an area of 9 m^2 . Charles wants to varnish the floor. It costs $\text{£}2.45$ for a tin of varnish which covers 1500 cm^2 of floor. How much will it cost to varnish the floor?
(g)	(h)	(i)
Coco has 0.005 m^3 of orange juice. She wants to fill as many glasses as possible with juice. Each glass holds 210 cm^3 . How many glasses can Coco completely fill?	A standard bin holds 240 litres of rubbish. A refuse lorry can hold 26 m^3 of waste. How many full bins could be emptied into the lorry before it is full?	Which has the greatest volume? A cuboid with a capacity of 0.6 litres, a prism with a cross section of 5000 mm^2 and length of 6 cm , or a cube with side length 0.08 m .