Converting Units of Area and Volume		
(a)	(b)	(c)
Which is the greater area? $5000~mm^2~{\rm or}~5~cm^2$ $5000~mm^2$	A rectangle measures $6~cm$ by $5~cm$. Find the area of the rectangle: (i) in cm^2 $30~cm^2$ (ii) in mm^2 $3000~mm^2$	Which is the greater volume? $0.08m^3 \text{ or } 8000cm^3$ $0.08m^3$
(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? $168\ litres$	A cube has side length $6\ cm$. Find the volume of the cube: (i) in cm^3 $216\ cm^3$ (ii) in m^3 $0.000216\ m^3$	A kitchen floor has an area of $9~m^2$. Charles wants to varnish the floor. It costs £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 $0.005m^3$ of orange juice. She wants to fill as many glasses as possible with juice. Each glass holds $210cm^3$. 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? 108	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 $0.08 \ m$. The cuboid with a capacity of $0.6 \ litres$