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| **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 $£2.45$ 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 $0.08 m$. |