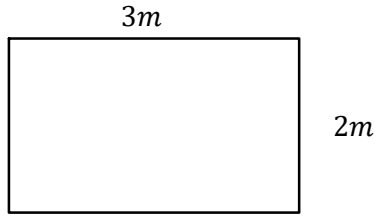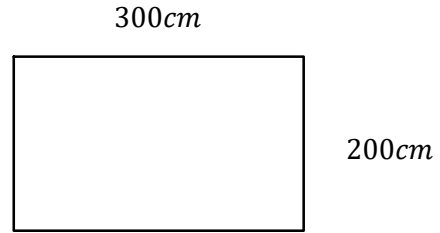# M10 - 1.2 - Conversion 1st vs 2nd Notes

Find the Area in cm^2

3m

2m

$$3m \times \frac{100cm}{1m} = 300cm$$

$$2m \times \frac{100cm}{1m} = 200cm$$

300cm

200cm

OR

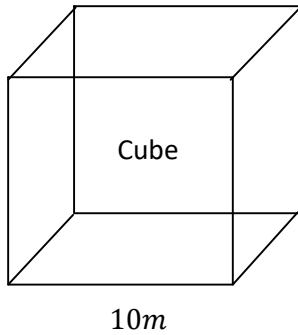$A = l \times w$
$A = 3 \times 2$
$A = 6m^2$

$$6m^2 \times \frac{100cm}{1m} \times \frac{100cm}{1m} = \boxed{60000cm^2}$$

$A = l \times w$
$A = 300 \times 200$

$A = 60000cm^2$

How many litres of water can fit in this cube?

Cube

10m

$V = l \times w \times h$
$V = 10m \times 10m \times 10m$
$V = 1000m^3$

$$OR$$

Cube

1000cm

$$10m \times \frac{100cm}{m} = 1000cm$$

$V = l \times w \times h$
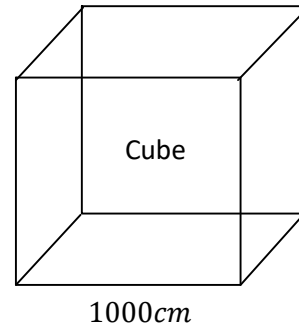$V = 1000cm \times 1000cm \times 1000cm$
$V = 1000000000cm^3$

$$1000m^3 \times \frac{100cm}{1m} \times \frac{100cm}{1m} \times \frac{100cm}{1m} = 1000000000cm^3$$

$$1000000000cm^3 \times \frac{1mL}{cm^3} = 1000000000mL$$

$$1000000000mL \times \frac{1L}{1000mL} = \boxed{1000000L}$$