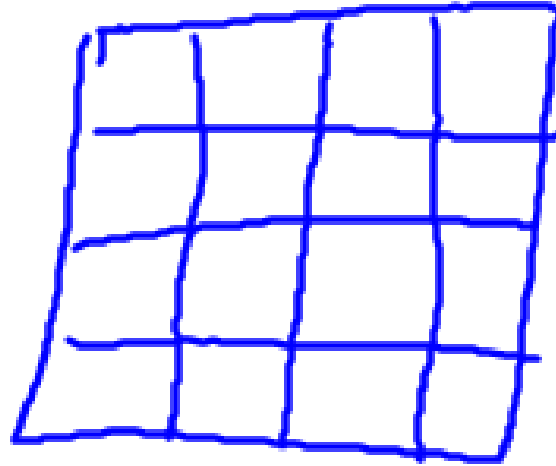


# Diagrams For Area

- We can calculate area of 2D shapes and volume of 3D shapes using exponents.

Ex.



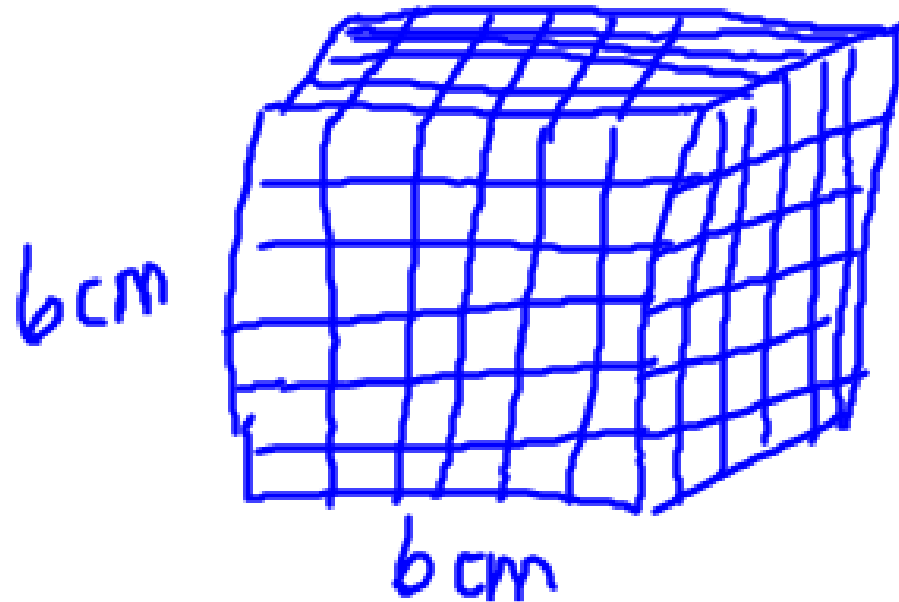
$$A = L \times W$$

$$A = (4\text{cm}) \times (4\text{cm})$$

$$A = (4\text{cm})^2$$

$$A = 16\text{cm}^2$$

Ex.



$$V = L \times W \times H$$

$$V = (6\text{cm}) \times (6\text{cm}) \times (6\text{cm})$$

$$V = (6\text{cm})^3$$

$$V = 216\text{cm}^3$$

Square  $\rightarrow$  units<sup>2</sup>  $\nwarrow$  squared

Cube  $\rightarrow$  units<sup>3</sup>  $\nwarrow$  cubed