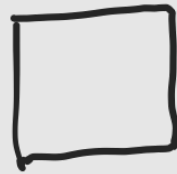
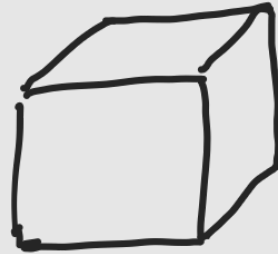


Scaled Copies and Area & Volume

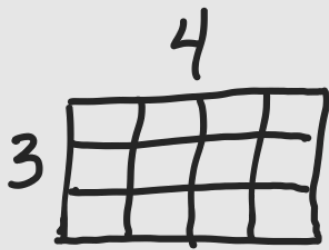
Length
inches



Area
inches²

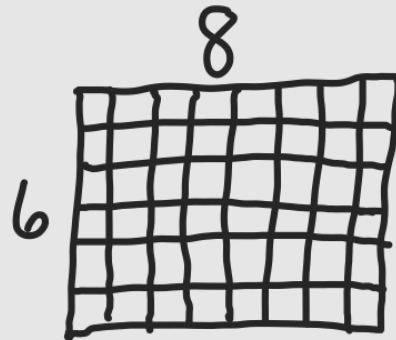


Volume
inches³

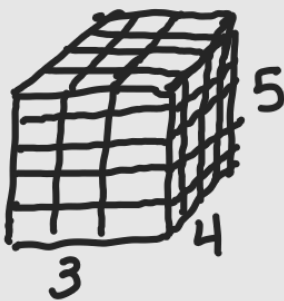


$$3 \times 4 = 12$$
$$a = 12u^2$$

scale factor
of 2
→

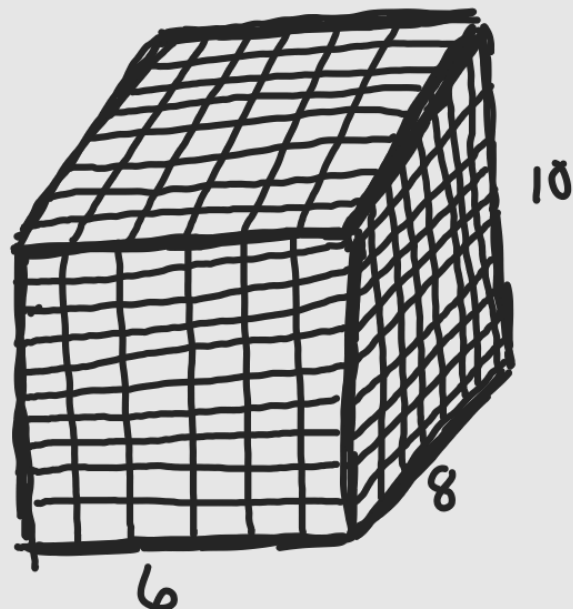


$$(3 \cdot 2) \cdot (4 \cdot 2) = 3 \cdot 4 \cdot (2 \cdot 2)$$
$$a = 12 \cdot 2^2 = 48u^2$$



$$3 \times 4 \times 5 = 60$$
$$V = 60u^3$$

scale factor
of 2
→



$$(3 \cdot 2) \cdot (4 \cdot 2) \cdot (5 \cdot 2) = 3 \cdot 4 \cdot 5 \cdot (2 \cdot 2 \cdot 2)$$
$$V = 60 \cdot 2^3 = 480u^3$$