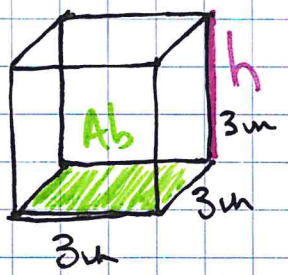
10.1.1 #1-6, 9, 10, 13-15
↳ #1-6 together (no book)
↳ #9-10 Stamped
↳ #14, 10 pictures w/labels on paper

10-1 to 10-6 Notes

Surface Area vs. Volume

- painting box
- glaze on donut
- frosting a cake
- wrapping presents

- how much jewelry fits in box
- dough inside donut
- how much flour in cake/ingredients/layers
- fish tank (29 gallons)
- choosing a bag



Cube: All sides are equal

$V = A_b \cdot h$

$V = \ell \cdot w \cdot h$

$V = (3)(3)(3) = 3^3 = 27 m^3$

Examples

① Cube $V = 8 m^3$

$V = 2^3 = (2)(2)(2)$

$s = 2m$

② $V = 125 m^3$

$V = 5^3 = (5)(5)(5)$

$s = 5 m$

③ $V = 40 m^3$

$\rightarrow \sqrt[3]{40} = \sqrt[3]{s^3}$

$3.4 m \approx s$