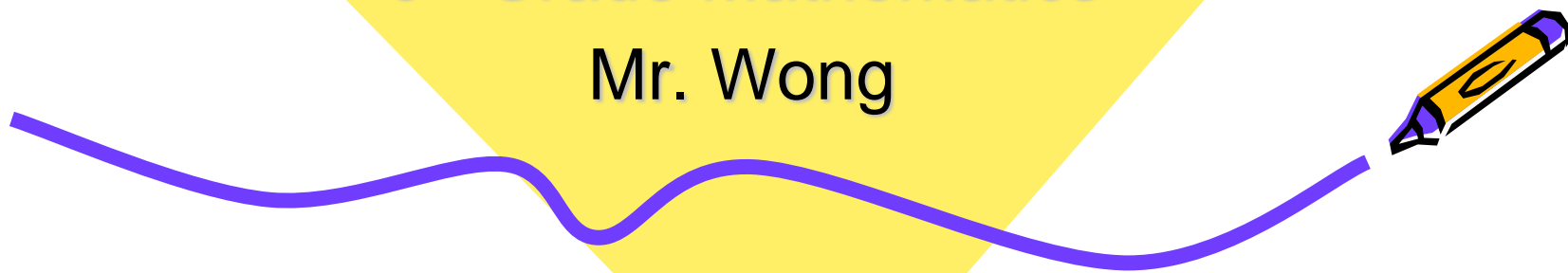


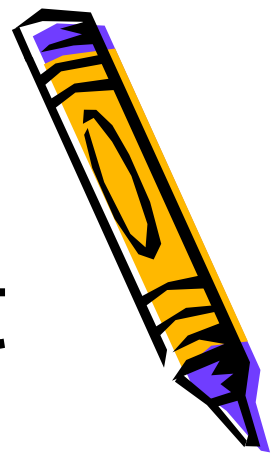
Volume

6th Grade Mathematics

Mr. Wong



Volume - is the amount of cubes it takes to fill an object

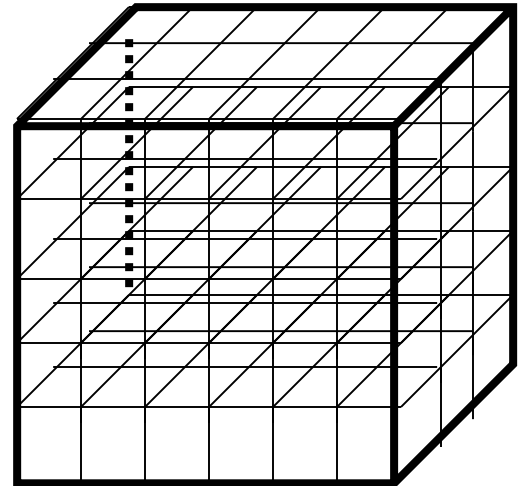


The bottom layer has
18 cubes. $6 \cdot 3 = 18$

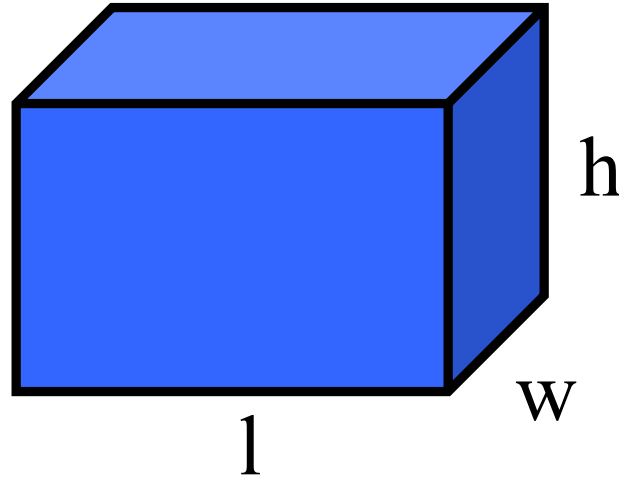
Each layer has 18 cubes.

There are 5 layers

$18 \cdot 5 = 90$ cubes

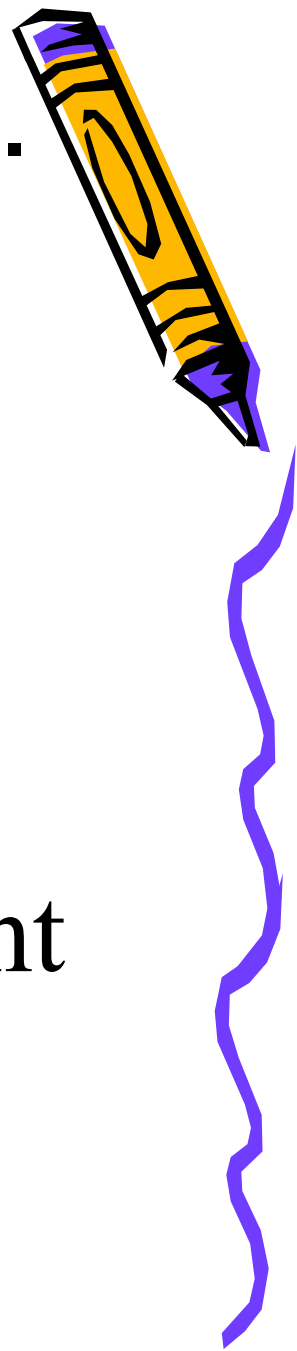


Volume of a rectangular prism.



Volume = length • width • height

$$V = l \cdot w \cdot h$$



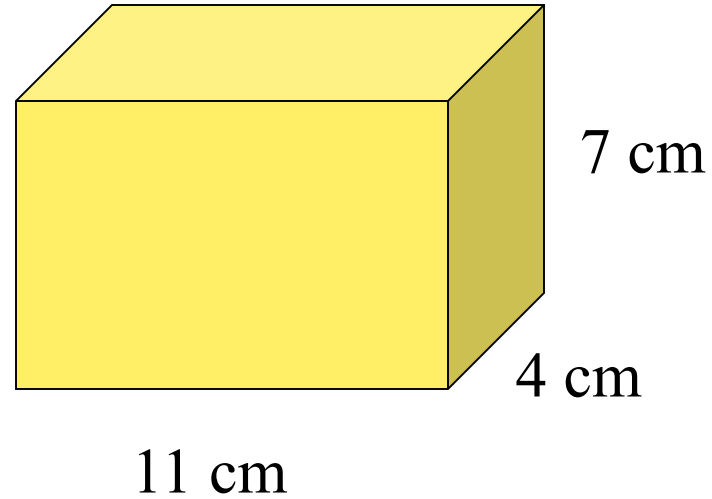
Ex. 1 Find the volume.

$$V = l \cdot w \cdot h$$

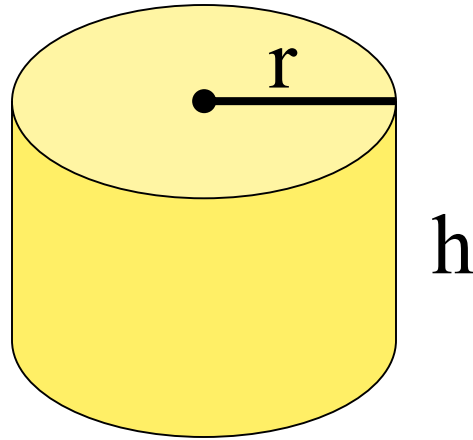
$$V = 11 \cdot 4 \cdot 7$$

$$V = 44 \cdot 7$$

$$V = 308 \text{ cm}^3$$

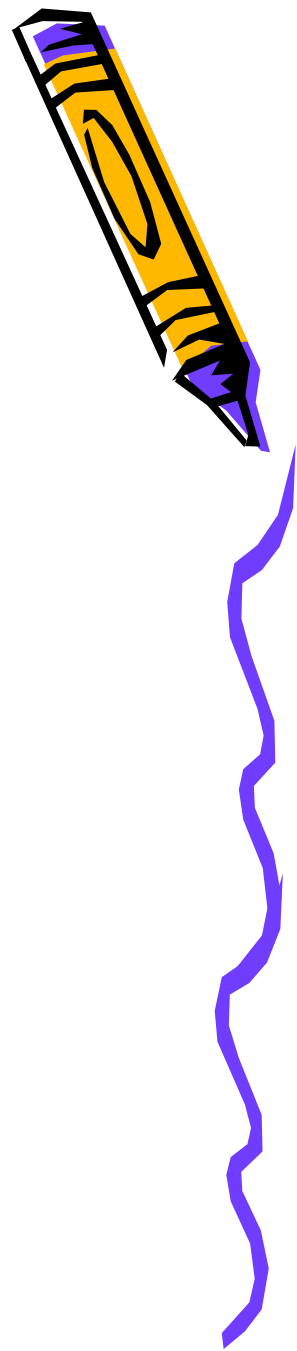


Volume of a cylinder.



Volume = pi • (radius)² • height

$$V = \pi \cdot r^2 \cdot h$$



Ex. 2 Find the volume.

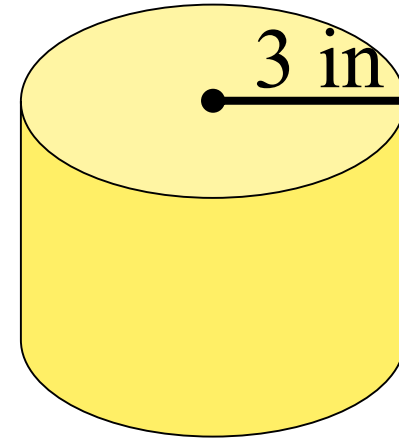
$$V = \pi \cdot r^2 \cdot h$$

$$V = 3.14 \cdot 3^2 \cdot 5$$

$$V = 3.14 \cdot 9 \cdot 5$$

$$V = 28.26 \cdot 5$$

$$V = 141.3 \text{ in}^3$$



5 in

