Warmup 4/(Radius = 3, Diameter $=$ $\qquad$

## REVIEW PACKETS

$\square$ Tomorrow, you will need to turn in what you have, even if it's not done

1) Find the volume of the composite figure.

$4500-1500=3000 \mathrm{ft}^{3}$


## Working Backwards

- Find the radius of the sphere.


The figure shows a can of three tennis balls. The can is just large enough so that the tennis balls will fit inside with the lid on. The diameter of each tennis ball is 2.5 in .

1. Find the total volume of the can.
2. Find the volume of empty space inside the can. $\qquad$
Can $=\pi \cdot 1.25^{3} \cdot 7.5$
Can $\approx 36.8 \mathrm{in}^{3}$
3. $36.8 \mathrm{in}^{3}$

Each ball $=\frac{4}{3} \pi \cdot 1.25^{3}$
2. $12.3 \mathrm{in}^{3}$

Each ball $\approx 8.18 \mathrm{in}^{3}$


Here's what the pizzas look

## A similar phenomenon...

- If you double the side lengths of a square, does the area double?

- If you triple the side lengths of a square, does the area triple?



## CLASSWORK/HOMEWORK:

- Volume Scavenger Hunt WS
- The answer to each problem is SOMEWHERE ELSE on the sheet
- You can start at any problem you want the sequence should take you to all 14 problems and then back to the one you started at
- You must show ALL work. If you need more space, attach a separate sheet of paper.

