

**Handout: Approach 3 – A' – A''**

one dot does a lot!

The Glue it and Do it Math Notebook  
 — skip copy the problem & get right to work

**The Pool Border Problem**

How many square tiles does it take to build a border around a square "pool"?  
 Find a way to know the number of tiles it will take without having to count,  
 for any size pool.



A rule for how many squares it takes to build the border around any size square pool

$$l \times w - 4 \text{ (length} \times \text{width)} - 4 = \text{border}$$

$$4 \times 4 = 16$$

$$16 - 4 = 12$$

\* something to do w/ squares but how do you know what to subtract from the center?

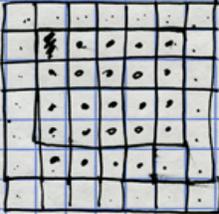


$$l \times w = 25 - 9 = 16$$

$(l \times w) - \text{Area of Center Square?}$   
 $(l \times w) - 4$

\* you need to find the area of both squares the subtract

PTMD →



$$\begin{array}{r} 49 \\ - 25 \\ \hline 24 \end{array}$$

$$l \times w = 49 - 25 = 24?$$

$4l + 4$

~~$l^2 + 4l + 4 - l^2$~~