

Station 2 Desmos

Desmos Activity

Directions: Go onto **student.desmos.com** and type in the **code S434B**. One partner will write, the other partner will type.

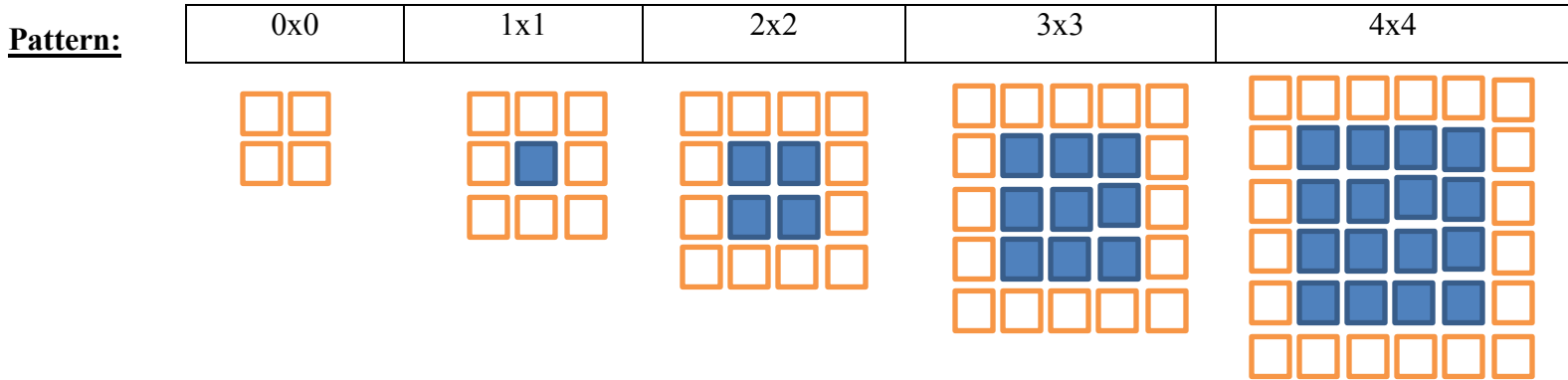
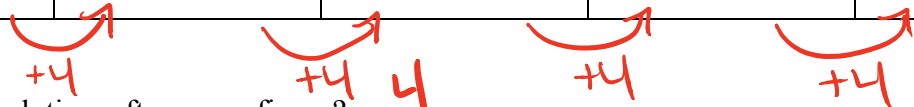


Table:

Pool Size 	Figure 0 0x0	Figure 1 1x1	Figure 2 2x2	Figure 3 3x3	Figure 4 4x4
Border Tiles 	4	8	12	16	20



How many **border tiles** are added each time after every figure? 4

How many **border tiles** are in figure 0? 4

Create the rule:
 x = figure number
 y = the border tiles

$$y = \underline{4}x + \underline{4}$$

Practice: Using the rule you created, answer the following questions

How many border tiles do you need for a pool that is:

Figure 10 10x10

if $x = 10$
 $y = 4(10) + 4$
 $y = 40 + 4$
 $y = 44$

44 border tiles

Figure 13 13x13

if $x = 13$
 $y = 4(13) + 4$
 $y = 62 + 4$
 $y = 66$

66 border tiles