

# Pin Pad

Which pin pad design has a greater set of possible codes.

## W I D E

A	1	X
B	2	Y

T	A	1
A	B	2
L	C	3
L		

1. List all the possible codes for the **WIDE** pin pad.

**Wide Pin Pad Instructions:**

First choose A or B  
Second choose 1 or 2  
Third choose X or Y

2. List all the possible codes for the **TALL** pin pad.

**Tall Pin Pad Instructions:**

First choose A, B or C  
Second choose 1, 2 or 3

3. Which pin pad has the greater number of possible codes?
4. If you had a 3 x 3 pin pad with 9 buttons, how many possible outcomes would there be?

Extension: Can you describe a RULE between the number of rows and columns and the possible outcomes?