**Broken Calculator**

Meredith had been warned about playing catch with the calculator, but the moment it slipped through her fingers and banged on the tile floor, she knew it was too late.

“Meredith!” cried her teacher. “What have I told you about throwing the calculator?”

The teacher picked up the calculator and pressed a button. Nothing happened. Then another. Nothing. She pressed a third, and the calculator registered a 7. She hit it again, and it went to 14. Picking through every key, Meredith and her teacher realized only three keys did anything, and what they did was strange.

Button A added 7.

Button B added 5.

Button C took the square root.

“Meredith,” said her teacher, “you’ve certainly broken this calculator. I used to be able to type in any number I wanted, and now I can’t even make it display a 2.”

“Yes, you can!” said Meredith. And with that, she picked up the calculator (which displayed 0 to start) tapped on the buttons, and turned it around to show her teacher a 2 on the screen.

How did Meredith make 2?

**Bonus**: What is the fewest number of buttons Meredith would have to press to make 2?

**Super Bonus**: What are the positive whole numbers that the calculator can and cannot display with only the three working buttons?