1. The calculator shall have an 8 digit display capable of displaying an 8 digit number
2. The calculator shall have an addition function that accurately adds two numbers
3. The calculator shall have a subtraction function that accurately subtracts two numbers
4. The calculator shall have a multiplication button that accurately multiplies two numbers
5. The calculator shall have a division button that accurately divides two numbers
6. The calculator shall have a memory button that will commit a value to memory
7. The calculator shall have a retrieve button that shall retrieve a previously committed value from memory
8. The calculator shall display pi to 7 decimal places when the pi button is pressed
9. The calculator shall multiply the currently displayed number by itself when the square button is pressed
10. The calculator shall have percent button that shall divide the currently displayed number by 100

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Step #** | **Step Details** | **Expected Results** | **Actual Results** | **Pass / Fail / Not executed / Suspended** |
|
| 1 | Enter 8 digits into the calculator | The calculator will display the 8 digits entered correctly |  |  |
| 2 | Enter in 4 then the addition button then 2 and press the equals button | The calculator will display 6 as the final result |  |  |
| 3 | Enter in 6 and then the minus button and then 2 and press the equals button | The calculator will display 4 as the result |  |  |
| 4 | Enter in 6 and then the multiplication button and then 2 and press the equals button | The calculator will display 12 as the result |  |  |
| 5 | Enter in 12 and then the division button and then 2 and press the equals button | The calculator will display 6 as the result |  |  |
| 6 | Enter in 6 and then press the memory button. Clear the screen and press the retrieve button to see if 6 was the stored value | 6 is the retrieved value from memory and is displayed |  |  |
| 7 | Enter in 6 and then press the memory button. Clear the screen and press the retrieve button to see if 6 was the stored value | 6 is the retrieved value from memory and is displayed |  |  |
| 8 | Press the pi button and check that the number displayed is pi accurate to 7 decimal places or more | Pi is displayed accurate to 7 decimal places or more |  |  |
| 9 | Enter 6 into the calculator and then press the square button. | 36 should be displayed in the calculator |  |  |
| 10 | Enter 600 and then press the percent button | 6 should be displayed |  |  |

The calculator I used for tests is linked below

<https://www.calculatorsoup.com/calculators/math/basic.php>