

| Input | Output | Conditions Being Tested |
|-----------------------------------|-------------|--|
| 10+10= | 20 | Addition, 2 positive numbers, no errors |
| 11-21= | -10 | Subtraction, 2 positive numbers, negative output, no errors |
| 20—110= | -90 | Subtraction, 1 positive, 1 negative, concurrent '-' symbols, no errors |
| -10—20= | 10 | Subtraction, 2 negative numbers, concurrent '-' symbols, no errors |
| -1-1= | -2 | Subtraction, 1 positive, 1 negative, no errors |
| 1+-5= | -4 | Addition, 1 positive, 1 negative, concurrent operator symbols, no errors |
| -5+2= | -3 | Addition, 1 positive, 1 negative, no errors |
| -5+-40= | -35 | Addition, 2 negative, concurrent operator symbols, no errors |
| 2*50= | 100 | Multiplication, 2 positive numbers, no errors |
| -8*5= | -40 | Multiplication, 1 positive, 1 negative, no errors |
| 2*-100= | -200 | Multiplication, 1 positive, 1 negative, concurrent operator symbols, no errors |
| -4*-5= | 20 | Multiplication, 2 negative, concurrent operator symbols, no errors |
| 1*2*3= | 6 | Multiple operations, no errors |
| 1+2*3-4= | 5 | Multiple different operators, no errors |
| -1+1=1*1=1+1= | 0 1 2 | Multiple calculations, no errors |
| A*1= | Error | Invalid entry |
| 1**1= | Error | Invalid concurrence of operators |
| 123456789123*123456789423= | Error | Input Overflow triggered when mulhi returns 1 |
| *1-1= | Error | Syntax error |
| 123456*123456= | Error | Output overflow |
| 2345678901+2345678901= | Error | Output overflow |
| -2345678901-2345678901= | Error | Output overflow |