Build		1.0				
Enviror	nment	Android 11.0				
Nº	Description	Test data	Status	Comments		
Addition						
TC1	Integer positive numbers	345+892	passed	auto		
TC2	Integer negative numbers	(-528)+(-634)	passed	auto		
TC3	Integer positive and integer negative numbers	589+986+(-852)	passed	auto		
TC4	Floating point positive numbers	125,8+652,13	passed	manual		
TC5	Floating point negative numbers	(-526,75)+(-378,3)	passed	manual		
TC6	Floating point positive and floating point negative numbers	753,54+436,753+(-753,29)	passed	manual		
TC7	Integer positive and floating point positive numbers	456+698,58	passed	auto		
TC8	Integer positive and floating point negative numbers	759897+(-52896,25)	passed	auto		
TC9	Integer negative and floating point positive numbers	(-569)+258,36	passed	auto		
TC10	Integer negative and floating point negative numbers	(-7569)+(-523,265)	passed	auto		
Subtraction						
TC11	Integer positive numbers	7563-2563	passed	auto		
TC12	Integer negative numbers	(-2563)-(-5523)	passed	auto		
TC13	Integer positive and integer negative numbers	1589-986-(-852)	passed	auto		
TC14	Floating point positive numbers	125,8-652,13	passed	manual		
TC15	Floating point negative numbers	(-526,75)-(-378,3)	passed	manual		
TC16	Floating point positive and floating point negative numbers	753,54-436,753-(-753,29)	passed	manual		
TC17	Integer positive and floating point positive numbers	1456-698,58	passed	auto		
TC18	Integer positive and floating point negative numbers	759897-(-52896,25)	passed	auto		
TC19	Integer negative and floating point positive numbers	(-569)-258,36	passed	auto		
TC20	Integer negative and floating point negative numbers	(-7569)-(-523,265)	passed	auto		
Multiplication						
TC21	Integer positive numbers	345*892	passed	auto		
TC22	Integer negative numbers	(-528)*(-634)	passed	auto		
TC23	Integer positive and integer negative numbers	589*986*(-852)	passed	auto		
TC24	Floating point positive numbers	125,8*652,13	passed	manual		

TC25	Floating point negative numbers	(-526,75)*(-378,3)	passed	manual			
TC26	Floating point positive and floating point negative numbers	753,54*436,753*(-753,29)	passed	manual			
TC27	Integer positive and floating point positive numbers	456*698,58	passed	auto			
TC28	Integer positive and floating point negative numbers	759897*(-52896,25)	passed	auto			
TC29	Integer negative and floating point positive numbers	(-569)*258,36	passed	auto			
TC30	Integer negative and floating point negative numbers	(-7569)*(-523,265)	passed	auto			
TC31	Integer positive number to zero	8*0	passed	auto			
TC32	Integer negative number to zero	(-5)*0	passed	auto			
TC33	Floating point positive number to zero	1,5*0	passed	manual			
TC34	Floating point negative number to zero	(-5,2)*0	passed	manual			
Division							
TC35	Integer positive numbers	345/892	passed	auto			
TC36	Integer negative numbers	(-528)/(-634)	passed	auto			
TC37	Integer positive and integer negative numbers	589/(-852)	passed	auto			
TC38	Floating point positive numbers	125,8/652,13	passed	manual			
TC39	Floating point negative numbers	(-526,75)/(-378,3)	passed	manual			
TC40	Floating point positive and floating point negative numbers	36,753/(-753,29)	passed	manual			
TC41	Integer positive and floating point positive numbers	456/69,58	passed	auto			
TC42	Integer positive and floating point negative numbers	759897/(-52896,25)	passed	auto			
TC43	Integer negative and floating point positive numbers	(-569)/258,36	passed	auto			
TC44	Integer negative and floating point negative numbers	(-7569)/(-523,265)	passed	auto			
TC45	Integer positive number to zero	8/0	passed	auto			
TC46	Integer negative number to zero	(-5)/0	passed	auto			
TC47	Floating point positive number to zero	1,5/0	passed	manual			
TC48	Floating point negative number to zero	(-5,2)/0	passed	manual			
	Automation ROI calculation						
Number	of manuel Test Cases, pcs	16					
Number of automated Test Cases, pcs		32					
Period of ROI, hours							
(1 quarte	er = 13 weeks * 5 work days * 8 hours)		520				

Hourly automation time per test, hours	1		
Automated test script development time	4		
Automated test execution time per test, hours	0,1		
Automated test script execution time	92,44		
Test Analysis time, hours	0,2		
Automated test analysis time	13		
Maintenance time, hours	0,35		
Automated test maintenance time	22,75		
Manual test execution time, hours	0,5		
Manual Execution Time	520		
Investment	652,19		
Saving	1560		
Test automation ROI	139,19		

Conclusion:

Sinse ROI = 139,19%, this means that investments in automation will pay off within 1 quarter and even bring profit.

Also onse manual tester are freed from having to run repetitive tests. Automated testing will help expand test coverage, improve the quality and efficiency of testing.