User Acceptance Testing

Objective: to check the parameters that match.

The test is stored in a testing matrix.

Test plan <u>Implemented parameters</u>

ID	Steps	Sharp (Advanced D.A.L calculator)	Online Scientific Calculator	The Master Calculator	Expected result	Actual Result	Pass(p) /Fail(F) /fair
1	4+6	10	10	10	10	10	p
2	4-5	-1	-1	-1	-1	-1	p
3	9x4	36	36	36	36	36	p
4	¾	0.75	0.75	0.75	0.75	0.75	p
5	-3*-3	9	9	9	9	9	p
6	4*0	0	0	0	0	0	p
7	9/-3	-3	-3	-3	-3	-3	p
8	(7-4)/3	1	1	1	1	1	p
5	4+5-6/6*8	1	1	1	1	1	p
6	$\sqrt{49}$	7	7	7	7	7	p
7	2^8	256	256	256.0	256	256	p
8	π	3.141592654 (9 decimal)	3.14159265359 (11 decimal)	3.14159265358 9793 (15 decimal)	3.141592653 589793238 (18 decimal)	3.141592 65358979 3 (15 decimal)	fair
9	ln	1.791759469	1.79175946922 8	1.79175946922 8055	1.791759469 228055	1.791759 46922805 5	p
10	Sin 30 rads	-0.988031624	-0.9880316240 928618	-0.988031624 0928618	-0.98803162 40928618	-0.98803 1624 0928618	p
11	Cos 30 rads	0.154251449	0.15425144988 7584	0.15425144988 758405	0.154251449 887584	0.154251 44988758 405	fair
12	Tan 30 rads	-6.405331197	-6.4053311966 46276	-6.4053311966 46276	-6.40533119 6646276	-6.40533 11966462 76	p

The following parameters on scientific calculator were not yet implemented due to time factor.

Sin deg				
Cos deg				
Tan deg				
Inverse of sin				
Inverse of cos				
Inverse of tan				
log				

Unit conversion

Test plan

ID	Objective	steps	Unit Conversion.net	The master Calculator	Expected result	Actual result	Pas/fail
	Check the match						
1	,,	45m to km	0.045	0.045	0.045	0.045	**p**
2	,,	30m to mile	0.01864	0.018639	0.01864	0.018639	**p**
3	,,	34 ft to km	0.0103632	0.01019999999 9999999	0.0103632	0.01019999999 9999999	**F**
4	,,	23Km to mile	14.29	14.29	14.29	14.29	**P**
5	,,	4 miles to meter	6437.4	6437.36	6437.4	6437.36	**p**
6	,,	Km 5 to gram	nil	error	error	error	**p**
7	,,	5g to kg	0.0005	0.0005	0.005	0.0005	**p**
8	,,	8kg to gram	8000	8000	8000	8000	**p**
9	,,	2kg to kg	2	2	2	2	**p**
10	,,	2kg to Km	nil	error	err	error	**p**