

Table 1. 5 Kg Accuracy Experiment Results

Iteration	Actual Weight (Kg)	Conventional Scales (Kg)	Digital scales for the blind (Kg)	Difference (Kg)	Error Rate
1	5	5	5	0	0%
2	5	5	5	0	0%
3	5	5	5	0	0%
4	5	5	5	0	0%
5	5	5	5	0	0%
6	5	5	5	0	0%
7	5	5	5	0	0%
8	5	5	5	0	0%
9	5	5	5	0	0%
10	5	5	5	0	0%
11	5	5	5	0	0%
12	5	5	5	0	0%
13	5	5	5	0	0%
14	5	5	5	0	0%
15	5	5	5	0	0%
16	5	5	5	0	0%
17	5	5	5	0	0%
18	5	5	5	0	0%
19	5	5	5	0	0%
20	5	5	5	0	0%
21	5	5	5	0	0%
22	5	5	5	0	0%
23	5	5	5	0	0%
24	5	5	5	0	0%
25	5	5	5	0	0%
26	5	5	5	0	0%
27	5	5	5	0	0%
28	5	5	5	0	0%
29	5	5	5	0	0%
30	5	5	5	0	0%
Average Error Rate					0%
Standard Deviation					0

Table 2. 40 Kg Accuracy Experiment Results

Iteration	Actual Weight (Kg)	Conventional Scales (Kg)	Digital scales for the blind (Kg)	Difference (Kg)	Error Rate
1	40	40.9	39.7	1.2	2.93%
2	40	40	39.7	0.3	0.75%
3	40	40	39.7	0.3	0.75%
4	40	40	40	0	0.00%
5	40	41	40	1	2.44%
6	40	40	40	0	0.00%
7	40	41	40	1	2.44%
8	40	40	39.9	0.1	0.25%

9	40	40	39.9	0.1	0.25%
10	40	41	39.7	1.3	3.17%
11	40	40	40	0	0.00%
12	40	41	40	1	2.44%
13	40	40	40	0	0.00%
14	40	40.9	40	0.9	2.20%
15	40	40	39.9	0.1	0.25%
16	40	40	39.7	0.3	0.75%
17	40	40	40	0	0.00%
18	40	41	39.9	1.1	2.68%
19	40	40	39.7	0.3	0.75%
20	40	40.9	39.7	1.2	2.93%
Average Error Rate					1.25%
Standard Deviation					1.25%

Table 3. 80 Kg Accuracy Experiment Results

Iteration	Actual Weight (Kg)	Conventional Scales (Kg)	Digital scales for the blind (Kg)	Difference (Kg)	Error Rate
1	78.9	79	0.1	0.13%	78.9
2	76	79.1	3.1	4.08%	76
3	78.2	79.1	0.9	1.15%	78.2
4	80.6	79.1	1.5	1.86%	80.6
5	80.6	80	0.6	0.74%	80.6
6	77.3	79.1	1.8	2.33%	77.3
7	80	80	0	0.00%	80
8	80	79	1	1.25%	80
9	78.9	79.1	0.2	0.25%	78.9
10	78.9	79	0.1	0.13%	78.9
11	78.9	79.1	0.2	0.25%	78.9
12	80	80	0	0.00%	80
13	78.9	80	1.1	1.39%	78.9
14	80	80	0	0.00%	80
15	80	80	0	0.00%	80
16	79.8	79	0.8	1.00%	79.8
17	80	80	0	0.00%	80
18	80	80	0	0.00%	80
19	79.8	80	0.2	0.25%	79.8
20	80	80	0	0.00%	80
21	80	79	1	1.25%	80
22	80	80	0	0.00%	80
23	78.9	80	1.1	1.39%	78.9
24	80	80	0	0.00%	80
25	80	80	0	0.00%	80
26	78.9	79	0.1	0.13%	78.9
27	80	80	0	0.00%	80
28	80	80	0	0.00%	80
29	77.3	79	1.7	2.20%	77.3

Average Error Rate
Standard Deviation

0.68%
0.98%

Table 4. Power Consumption Experiment Results

Time (Hours)	Percentage of Battery (%)		
	Standby Mode	Active Mode	Regular Mode
1	100	100	100
2	95	86	93
3	89	73	86
4	84	60	79
5	79	46	72
6	73	33	65
7	68	20	58
8	63	7	52
9	58	0	45
10	53	-	38
11	47	-	31
12	42	-	24
13	37	-	17
14	31	-	10
15	26	-	3
16	21	-	0
17	16	-	-
18	11	-	-
19	5	-	-