Point	Latitude	Longitude
A	41:16.777	82:19.965
B	41:17.000	82:20.148
C	41:17.268	82:20.182
D	41:16.685	82:20.324
E	41:16.978	82:20.258
F	41:16.985	82:19.966
G	41:17.034	82:20.235
H	41:16.952	82:20.202
I	41:16.736	82:20.181
J	41:17.154	82:20.127
K	41:17.166	82:20.296

All bearings are map bearings and should be adjusted with the current GM angle.

Start - Finish	Bearing	Distance (m)
A - B	328	485
A - C	341	958
A - D	251	529
A - E	312	553
A - F	0	385
A - G	321	607
A - H	314	463
A - I	255	311
A - J	342	734
A - K	327	856

Start - Finish	Bearing	Distance (m)
B - A	148	486
B - C	354	498
B -D	202	633
B - E	255	159
B - F	96	256
B - G	297	137
B- H	220	117
B- I	185	491
B - J	5	287
B - K	326	370

Start - Finish	Bearing	Distance (m)
E - A	132	553
E - B	75	159
E - C	11	547
E - D	189	550
E - F	88	408
E - G	17	109
E - H	121	92
E - I	166	461
E - J	29	374
E - K	351	352

Start - Finish	Bearing	Distance (m)
F - A	180	385
F - B	276	256
F - C	330	604
F - D	221	747
F - E	268	408
F - G	283	386
F - H	259	335
F - I	212	550
F - J	324	385
F - K	306	570

Start - Finish	Bearing	Distance (m)
I - A	75	311
I - B	5	491
I - C	359	984
I - D	244	221
I - E	346	461
I - F	32	550
I - G	352	557
I - H	355	401
I - J	5	777
I - K	348	812

Start - Finish	Bearing	Distance (m)
J - A	162	734
J - B	185	287
J - C	340	225
J - D	197	911
J - E	209	374
J - F	144	385
J - G	214	267
J - H	198	388
J - I	185	777
J - K	275	237

Start - Finish	Bearing	Distance (m)
C - A	161	958
C - B	174	498
C - D	190	1097
C - E	191	547
C - F	150	604
C - G	189	439
C - H	182	586
C - I	179	984
C - J	160	225
C - K	220	247

Start - Finish	Bearing	Distance (m)
D - A	71	529
D - B	22	633
D - C	10	1097
D - E	9	550
D - F	41	747
D - G	10	658
D - H	18	523
D - I	64	221
D - J	17	911
D - K	2	891

Start - Finish	Bearing	Distance (m)
G - A	141	607
G - B	117	137
G - C	9	439
G - D	190	658
G - E	197	109
G - F	103	386
G - H	163	157
G - I	172	557
G - J	34	267
G - K	340	259

Start - Finish	Bearing	Distance (m)
H - A	134	463
H - B	40	117
H - C	2	586
H - D	198	523
H - E	301	92
H - F	79	335
H - G	343	157
H - I	175	401
H - J	18	388
H - K	341	417

Start - Finish	Bearing	Distance (m)
K - A	147	856
K - B	146	370
K - C	40	247
K - D	182	891
K - E	171	352
K - F	126	570
K - G	160	259
K - H	161	417
K - I	168	812
K - J	95	237

All bearings are map bearings and should be adjusted with the current GM angle.

SR1

Start - Finish	Bearing	Distance (m)
A - I	255	311
I - D	244	221
D - H	18	523
		1055

SR2

Start - Finish	Bearing	Distance (m)
A - F	0	385
F - B	276	256
B - G	297	137
		778

SR3

Start - Finish	Bearing	Distance (m)
A - I	255	311
I - H	355	401
H - B	40	117
		829

SR4

Start - Finish	Bearing	Distance (m)
A - H	314	463
H - G	343	157
G - J	34	267
		887

SR5

Start - Finish	Bearing	Distance (m)
A - F	0	385
F - H	259	335
H - G	343	157
		877

SR6

Start - Finish	Bearing	Distance (m)
A - H	314	463
H - E	301	92
E - K	351	352
		907

SR7

Start - Finish	Bearing	Distance (m)
A - B	328	485
B - G	297	137
G - K	340	259
		881

SR8

Start - Finish	Bearing	Distance (m)
A - B	325	485
B - E	255	159
E - G	17	109
		753

Print this worksheet
The second page can be cut into individual slips and given to the scouts
The first is the answer key to ensure they reached the correct points.
Example: SR4 should have points A, then H, then G, and finally, J

Create your own routes using the point to point reference sheet

SR1

Leg	Bearing	Distance (m)
1	255	311
2	244	221
3	18	523

SR2

Leg	Bearing	Distance (m)
1	0	385
2	276	256
3	297	137

SR3

Leg	Bearing	Distance (m)
1	255	311
2	355	401
3	40	117

SR4

Leg	Bearing	Distance (m)
1	314	463
2	343	157
3	34	267

SR5

Leg	Bearing	Distance (m)
1	0	385
2	259	335
3	343	157

SR6

Leg	Bearing	Distance (m)
1	314	463
2	301	92
3	351	352

SR7

Leg	Bearing	Distance (m)
1	328	485
2	297	137
3	340	259

SR8

Leg	Bearing	Distance (m)
1	325	485
2	255	159
3	17	109

All bearings are map bearings and should be adjusted with the current GM angle.

LR1

Start - Finish	Bearing	Distance (m)
A - D	251	529
D - H	18	523
H - C	2	586
C - J	160	225
		1863

LR2

Start - Finish	Bearing	Distance (m)
A - G	321	607
G - F	103	386
F - I	212	550
I - J	5	777
		2320

LR3

Start - Finish	Bearing	Distance (m)
A - K	327	856
K - F	126	570
F - J	324	385
J - H	198	388
		2199

LR4

Start - Finish	Bearing	Distance (m)
A - E	312	553
E - J	29	374
J - H	198	388
H - D	198	523
		1838

LR5

Start - Finish	Bearing	Distance (m)
A - J	342	734
J - F	144	385
F - K	306	570
K - B	146	370
		2059

LR6

Start - Finish	Bearing	Distance (m)
A - D	251	529
D - I	64	221
I - E	346	461
E - F	88	408
		1619

LR7

Start - Finish	Bearing	Distance (m)
A - G	321	607
G - D	190	658
D - B	22	633
B- I	185	491
		2389

LR8

Start - Finish	Bearing	Distance (m)
A - K	327	856
K - H	161	417
H - C	2	586
C - G	189	439
		2298

LR9

Start - Finish	Bearing	Distance (m)
A - E	312	553
E - F	88	408
F - J	324	385
J - C	340	225
		1571

LR10

Start - Finish	Bearing	Distance (m)
A - J	342	734
J - B	185	287
B- I	185	491
I - G	352	557
		2069

Print this worksheet
The second page can be cut into individual slips and given to the scouts
The first is the answer key to ensure they reached the correct points.
Example: LR6 should have points A, D, I, E, and finally, F.

Create your own routes using the point to point reference sheet

LR1

Leg	Bearing	Distance (m)
1	251	529
2	18	523
3	2	586
4	160	225

LR2

Leg	Bearing	Distance (m)
1	321	607
2	103	386
3	212	550
4	5	777

LR3

Leg	Bearing	Distance (m)
1	327	856
2	126	570
3	324	385
4	198	388

LR4

Leg	Bearing	Distance (m)
1	312	553
2	29	374
3	198	388
4	198	523

LR5

Leg	Bearing	Distance (m)
1	342	734
2	144	385
3	306	570
4	146	370

LR6

Leg	Bearing	Distance (m)
1	251	529
2	64	221
3	346	461
4	88	408

LR7

Leg	Bearing	Distance (m)
1	321	607
2	190	658
3	22	633
4	185	491

LR8

Leg	Bearing	Distance (m)
1	327	856
2	161	417
3	2	586
4	189	439

LR9

Leg	Bearing	Distance (m)
1	312	553
2	88	408
3	324	385
4	340	225

LR10

Leg	Bearing	Distance (m)
1	342	734
2	185	287
3	185	491
4	352	557