Welcome to the webpage for the orienteering course at Shiloh. The course was built by the scouts of Troop 707 with the help and support of the park rangers of the Sonoma County Regional Parks, Home Depot, Nuforest Products, JDSU, and Brelje and Race Consulting Engineers . These courses are a great way to practice and improve your compass skills, and are good exercise too. The mile long compass course also fulfils the Boy Scout requirement 2 for First Class.

Before you begin you will need to determine your pace, or how far you travel in two steps. In front of and to the left of the horse parking area are the posts labeled S and X. The distance between these two posts is one hundred feet. To figure out your pace, walk in a straight line from post S to X, counting every second step. (If you take your first step with your left foot, count every step that you make with your right foot, if your take your first step with your right foot, count every step you make with your left foot) Record the number of steps you counted. Now divide one hundred (the number of feet between the two posts) by the number of steps you counted. This is the distance that you travel in one pace (two steps). For example, if you get a count of 25 steps, your pace is 100/25 which is 4 feet per pace. When you are walking the compass courses described below, you will need to figure out the number of paces required for each bearing. In these courses, just divide the distance by your pace distance to get the number of paces you need to take.

**What you will need:**

A compass with degree marking

Long pants

Closed toed shoes, hiking boots recommended but not required.

Something to write with and something to write on, to record the posts you traveled to and the order you traveled to them, so you can check if you completed each course correctly. The default is a pencil or pen, and paper.

The individual courses are organized by difficulty from Cub Scout, to Tenderfoot, to Star Scout to Eagle. Additionally there is the mile long compass course. (Its difficulty is somewhere between Star and Eagle) Below are the starting points and the different distances and bearings that make up each compass course. Enjoy, and good luck!

The Cub scout courses are located near the horse parking lot and are easily accessible. These courses should be used to familiarize scouts on compass use before moving on to the more difficult course.

**Difficulty: Cub Scout**

*Post # Distance Bearing Coordinates of post*

Course 1: Starting point S

1 87 ft 186.9° mag N38 31 29.3 W122 45 42.2

2 153 ft 275.3° mag N38 31 28.5 W122 45 42.6

3 125 ft 121.2° mag N38 31 29.1 W122 45 44.4

4 111 ft 30.3° mag N38 31 28.2 W122 45 43.3

5 42 ft 0.0° mag N38 31 28.9 W122 45 42.3

6

Course2: Starting point O

1 125 ft 121.2° mag N38 31 29.1 W122 45 44.4

2 148 ft 22.1° mag N38 31 28.2 W122 45 43.3

3 42 ft 179.8° mag N38 31 29.3 W122 45 42.2

4

Course3: Starting point P

1 57 ft 314.9° mag N38 31 28.6 W122 45 44.1

2 178 ft 66.0° mag N38 31 29.1 W122 45 44.4

3 42 ft 179.8° mag N38 31 29.3 W122 45 42.2

4

Course4: Starting point P

1 57 ft 314.9° mag N38 31 28.6 W122 45 44.1

2 166 ft 79.3° mag N38 31 29.1 W122 45 44.4

3 111 ft 210.3° mag N38 31 28.9 W122 45 42.3

4 148 ft 22.1° mag N38 31 28.2 W122 45 43.3

5

Course5: Starting point P

1 71 ft 110.1° mag N38 31 28.6 W122 45 44.1

2 111 ft 30.3° mag N38 31 28.2 W122 45 43.3

3 166 ft 259.3° mag N38 31 28.9 W122 45 42.3

4 238 ft 89.2° mag N38 31 29.1 W122 45 44.4

5

Course6: Starting point S

1 178 ft 246.0° mag N38 31 29.3 W122 45 42.2

2 238 ft 89.2° mag N38 31 29.1 W122 45 44.4

3 202 ft 257.5° mag N38 31 28.5 W122 45 41.5

4 71 ft 110.1° mag N38 31 28.6 W122 45 44.1

5

Course7: Starting point S

1 166 ft 227.3° mag N38 31 29.3 W122 45 42.2

2 57 ft 314.9° mag N38 31 28.6 W122 45 44.1

3 166 ft 79.3° mag N38 31 29.1 W122 45 44.4

4 111 ft 210.3° mag N38 31 28.9 W122 45 42.3 5

Course 8: Starting point S

1 166 ft 227.3° mag N38 31 29.3 W122 45 42.2

2 57 ft 314.9° mag N38 31 28.6 W122 45 44.1

3 125 ft 121.2° mag N38 31 29.1 W122 45 44.4

4 111 ft 30.3° mag N38 31 28.2 W122 45 43.3 5

Course 9: Starting point T

1 166 ft 259.3° mag N38 31 28.9 W122 45 42.3

2 57 ft 134.9° mag N38 31 29.1 W122 45 44.4

3 166 ft 47.3° mag N38 31 28.6 W122 45 44.1 4

Course10: Starting point X

1 238 ft 269.2° mag N38 31 28.5 W122 45 41.5

2 125 ft 121.2° mag N38 31 29.1 W122 45 44.4

3 71 ft 290.1° mag N38 31 28.2 W122 45 43.3

4 166 ft 47.3° mag N38 31 28.6 W122 45 44.1

5

Difficulty: Tenderfoot

Course11: Starting point B

1 56 ft 344.3° mag N38 31 20.0 W122 45 34.3

2 140 ft 259.5° mag N38 31 20.6 W122 45 34.3

3 122 ft 69.6° mag N38 31 20.7 W122 45 36.1

4 68 ft 204.2° mag N38 31 20.8 W122 45 34.5 5

Course12: Starting point G

1 31 ft 130.2° mag N38 31 20.4 W122 45 35.9

2 108 ft 41.4° mag N38 31 20.2 W122 45 35.7

3 81 ft 151.5° mag N38 31 20.8 W122 45 34.5

4 56 ft 344.3° mag N38 31 20.0 W122 45 34.3

5 29 ft 305.9° mag N38 31 20.6 W122 45 34.3 6

Course13: Starting point H

1 29 ft 297.4° mag N38 31 20.4 W122 45 34.0

2 140 ft 259.5° mag N38 31 20.6 W122 45 34.3

3 122 ft 69.6° mag N38 31 20.7 W122 45 36.1 4

Course14: Starting point N

1 165 ft 85.8° mag N38 31 20.7 W122 45 36.1

2 148 ft 258.1° mag N38 31 20.4 W122 45 34.0

3 127 ft 69.6° mag N38 31 20.4 W122 45 35.9

4 115 ft 235.9° mag N38 31 20.6 W122 45 34.3

5 108 ft 41.4° mag N38 31 20.2 W122 45 35.7 6

**Difficulty: Star Scout**

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Course15: Staring point G

1 148 ft 78.1° mag N38 31 20.4 W122 45 35.9

2 29 ft 297.4° mag N38 31 20.4 W122 45 34.0

3 140 ft 259.5° mag N38 31 20.6 W122 45 34.3

4 122 ft 69.6° mag N38 31 20.7 W122 45 36.1

5 58 ft 121.6° mag N38 31 20.8 W122 45 34.5

6 210 ft 308.5° mag N38 31 20.4 W122 45 34.0

7

Course16: Staring point H

1 131 ft 247.2° mag N38 31 20.4 W122 45 34.0

2 88 ft 146.4° mag N38 31 20.2 W122 45 35.7

3 93 ft 357.1° mag N38 31 19.4 W122 45 35.3

4 67 ft 98.2° mag N38 31 20.3 W122 45 35.1 5

Course17: Starting point H

1 144 ft 210.3° mag N38 31 20.4 W122 45 34.0

2 88 ft 326.4° mag N38 31 19.4 W122 45 35.3

3 97 ft 294.8° mag N38 31 20.2 W122 45 35.7

4 324 ft 309.1° mag N38 31 20.8 W122 45 36.6 5

Course18: Starting point H

1 210 ft 308.5° mag N38 31 20.4 W122 45 34.0

2 112 ft 292.2° mag N38 31 22.0 W122 45 35.6

3 112 ft 112.2° mag N38 31 22.7 W122 45 36.7

4 112 ft 200.6° mag N38 31 22.0 W122 45 35.6

5 139 ft 114.2° mag N38 31 21.1 W122 45 36.4 6

Course19: Starting point N

1 140 ft 79.5° mag N38 31 20.7 W122 45 36.1

2 127 ft 249.6° mag N38 31 20.6 W122 45 34.3

3 148 ft 78.1° mag N38 31 20.4 W122 45 35.9

4 210 ft 308.5° mag N38 31 20.4 W122 45 34.0

5 112 ft 292.2° mag N38 31 22.0 W122 45 35.6

6 122 ft 192.9° mag N38 31 22.7 W122 45 36.7 7

**Difficulty: Eagle**

Course20: Starting point B

1 190 ft 164.4° mag N38 31 20.0 W122 45 34.3

2 129 ft 28.9° mag N38 31 18.1 W122 45 34.2

3 176 ft 266.0° mag N38 31 19.1 W122 45 33.1

4 285 ft 308.7° mag N38 31 19.4 W122 45 35.3

5 108 ft 126.9° mag N38 31 21.6 W122 45 37.4

6 106 ft 16.2° mag N38 31 20.8 W122 45 36.6 7

Course21: Starting point D

1 156 ft 188.5° mag N38 31 20.8 W122 45 34.5

2 93 ft 357.1° mag N38 31 19.4 W122 45 35.3

3 67 ft 98.2° mag N38 31 20.3 W122 45 35.1

4 81 ft 331.5° mag N38 31 20.0 W122 45 34.3

5 58 ft 121.6° mag N38 31 20.8 W122 45 34.5 6

Course22: Staring point D

1 68 ft 204.2° mag N38 31 20.8 W122 45 34.5

2 89 ft 282.4° mag N38 31 20.3 W122 45 35.1

3 285 ft 110.5° mag N38 31 20.7 W122 45 36.1

4 361 ft 312.3° mag N38 31 19.1 W122 45 33.1 5

Course23: Starting point E

1 131 ft 67.2° mag N38 31 20.2 W122 45 35.7

2 145 ft 177.5° mag N38 31 20.4 W122 45 34.0

3 102 ft 71.2° mag N38 31 19.0 W122 45 34.4

4 361 ft 312.3° mag N38 31 19.1 W122 45 33.1

5 153 ft 131.2° mag N38 31 22.0 W122 45 35.6

6 108 ft 221.4° mag N38 31 20.8 W122 45 34.5 7

Course24: Starting point H

1 145 ft 177.5° mag N38 31 20.4 W122 45 34.0

2 158 ft 306.2° mag N38 31 19.0 W122 45 34.4

3 48 ft 65.9° mag N38 31 20.2 W122 45 35.7

4 93 ft 177.1° mag N38 31 20.3 W122 45 35.1

5 104 ft 36.6° mag N38 31 19.4 W122 45 35.3

6 134 ft 122.0° mag N38 31 20.0 W122 45 34.3

7 180 ft 314.2° mag N38 31 19.1 W122 45 33.1 8

Course 25: Starting point J

1 112 ft 20.6° mag N38 31 21.1 W122 45 36.4

2 112 ft 292.2° mag N38 31 22.0 W122 45 35.6

3 112 ft 112.2° mag N38 31 22.7 W122 45 36.7

4 153 ft 131.2° mag N38 31 22.0 W122 45 35.6

5 29 ft 125.9° mag N38 31 20.8 W122 45 34.5

6 180 ft 134.2° mag N38 31 20.6 W122 45 34.3

7 232 ft 285.2° mag N38 31 19.1 W122 45 33.1

8 418 ft 305.9° mag N38 31 20.2 W122 45 35.7

9 719 ft 308.7° mag N38 31 23.4 W122 45 39.0

10 125 ft 121.2° mag N38 31 29.1 W122 45 44.4

11 111 ft 30.3° mag N38 31 28.2 W122 45 43.3

12 166 ft 259.3° mag N38 31 28.9 W122 45 42.3

13 178 ft 66.0° mag N38 31 29.1 W122 45 44.4

14 42 ft 179.8° mag N38 31 29.3 W122 45 42.2

15 166 ft 259.3° mag N38 31 28.9 W122 45 42.3

16 57 ft 134.9° mag N38 31 29.1 W122 45 44.4 17

Mile long compass course: Starting Post O

Fulfills 1st class requirement (instructions continued on next page)

1 719 ft 128.7° mag N38 31 29.1 W122 45 44.4

2 216 ft 130.2° mag N38 31 23.4 W122 45 39.0

3 436 ft 129.7° mag N38 31 21.6 W122 45 37.4

4 129 ft 28.9° mag N38 31 18.1 W122 45 34.2

5 361 ft 312.3° mag N38 31 19.1 W122 45 33.1

6 806 ft 309.9° mag N38 31 22.0 W122 45 35.6

7 102 ft 312.3° mag N38 31 28.5 W122 45 41.5

8 87 ft 186.9° mag N38 31 29.3 W122 45 42.2

9 115 ft 256.7° mag N38 31 28.5 W122 45 42.6

10 71 ft 110.1° mag N38 31 28.6 W122 45 44.1

11 125 ft 301.2° mag N38 31 28.2 W122 45 43.3

12 166 ft 79.3° mag N38 31 29.1 W122 45 44.4

13 111 ft 210.3° mag N38 31 28.9 W122 45 42.3

14 71 ft 290.1° mag N38 31 28.2 W122 45 43.3

15 719 ft 128.2° mag N38 31 28.6 W122 45 44.1

16 216 ft 130.2° mag N38 31 23.4 W122 45 39.0

17 122 ft 12.9° mag N38 31 21.6 W122 45 37.4

18 112 ft 112.2° mag N38 31 22.7 W122 45 36.7

19 210 ft 128.5° mag N38 31 22.0 W122 45 35.6

20 152 ft 137.4° mag N38 31 20.4 W122 45 34.0

21 129 ft 208.9° mag N38 31 19.1 W122 45 33.1

22 190 ft 344.4° mag N38 31 18.1 W122 45 34.2

23 81 ft 331.5° mag N38 31 20.0 W122 45 34.3

24 153 ft 311.2° mag N38 31 20.8 W122 45 34.5

25 806 ft 309.9° mag N38 31 22.0 W122 45 35.6

26 80 ft 289.9° mag N38 31 28.5 W122 45 41.5