

WORKSHEET – SKI TOURING PREPARATION

The purpose of this worksheet is to provide you with the opportunity to review basic map and compass skills and information prior to participating in the outing. You will require the following:

- A. The map of the Three Fingered Jack region.
- B. An orienteering compass (or a protractor). A magnifying glass may help estimate elevations and find points.

Any worksheet that does not meet the standards for a "C" or better must be re-done and submitted in acceptable form *prior to the outing*. A "C" grade requires:

- a) Complete answers to all questions, and
- b) Correct answers to not less than 85% of the questions.
- c) Bearings must be no more than 2° off. The two black vertical lines drawn on the map align with TN.
- d) Distances must be within one-tenth of a mile.
- e) Elevations must be exact! If a feature is between contour lines, split the difference.

1. What is the contour interval of this map? _____ ft.

2. What is the local declination? _____°

3. What is the elevation of the following points?

Long Lake: feet

Square Lake: feet

Booth Lake: feet

Martin Lake: feet

Summit Lake: feet

4. Provide the bearing and distance, as requested below:

Bearing *Linear Distance*

From Pk 5274 (E of the "N" in National) TO Pk 5406 (NW of Square Lk.)° miles

From Pk 5406 to Pk 5862 (on S ridge of TFJ, SW of Martin Lake)° miles

Pk 5862 to Pk 5528 (just S of Lower Berley Lake)° miles

5. What feature lies 311° and .55 linear miles from the center of Booth Lake?

6. How long is the section of trail that starts at the trail junction on the east side of Booth Lake, passes on the west side of Square Lake, and ends at the junction with the PCT?

..... linear miles trail miles (adjusted for slope error)

(remember, multiply linear distance by 1.3 to convert linear distance to trail distance)

7. You are on a trail somewhere. A bearing on Peak 5406 (NW of Square Lake) reads 266°. Where, in general terms are you? Include a physical description of the area and the exact elevation in your answer (response is correct within 40').

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8. What geographic feature lies 130° and 1.0 miles from peak 5274?

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9. What are the UTM coordinates of the location calculated in Q8?

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10. You decide to practice your triangulation skills. Bearings to surrounding features from your location read as follows: 113° to Peak 5406, 240° to Peak 5274, and 336° to peak 5862. Describe your location using the landmark reference system. Remember, when using this reference system you provide the distance and bearing FROM a prominent feature TO your location. A physical description of your location (*including elevation*) is also provided. Example: In a depression at exactly 6800' and 4.2 linear miles, at a bearing of 210° from the summit of Three Fingered Jack. For the purposes of this question, use the center of Square Lake as the prominent feature. Where are you?

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11. What are the UTM coordinates of the location calculated in Q9? FYI, the location calculated in Q10 is our campsite location.

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12. What is the net elevation difference between the parking lot and our camping location?

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