

MAP & COMPASS WORKSHEET –BACKPACKING

Name:

The purpose of this worksheet is to provide you with the opportunity to review basic map and compass skills prior to participating in the Backpacking outing. You will require the outing map (provided in class) and your own compass. Copies of the maps (password-protected pdf's) have been posted to the course website. You are also encouraged to view the maps on your computer, especially when estimating elevations. You MUST answer all questions, and obtain correct answers to not less than 70% of the questions.

Bearings must be no more than 2° off. Linear distances must be within .2 miles and elevations must be within 20'! Split the elevation difference when a feature is between contour lines, and add a half of a contour interval to the last closed contour line when estimating the elevation of a hill.

YOU MUST COMPLETE THIS WORKSHEET IN ACCEPTABLE FASHION AND ON TIME IN ORDER TO PARTICIPATE IN THE OUTING!

- 01. What is the contour interval of the outing maps? ft.

- 02. Provide the elevations of the following points:
 - 1. Taylor Dunes Trailhead (TH) – starting point:
 - 2. Lost Lake:
 - 3. Friday’s Campsite:
 - 4. Butterfly Lake:

- 03. Provide the following traveling distances in MILES – no need to account for slope error; use map scale to determine distance:
 - A. FRIDAY TRAVEL ROUTE
 - 1. Taylor Dunes TH to junction with Carter Dunes Trail: MILES
 - 2. Jct. of Carter Dunes/Taylor Dunes trails south along red travel route to jct. with E-W section of OR Dunes Loop Trail: MILES
 - 3. Jct. of E-W section of OR Dunes Loop Trail south along N-S section of OR Dunes Loop Trail to Friday camp (tent icon): MILES
 - 4. Total distance of Friday’s travel route (add distances estimated for 1 – 3 above): MILES

 - B. SATURDAY TRAVEL ROUTE
 - 1. Creek crossing south of Fri. camp (red arrow) S along Tahkenitch Cr. Tr. 1336 to jct. with Tahkenitch Dune Tr. 1353: MILES
 - 2. Jc.t of Tr. 1336 / 1353 east along Tahkenitch Dunes Trail 1353 to jct. of Threemile Lake North Trail 1338: MILES
 - 3. Jc.t of Threemile Lake North Trail 1338 south to Sa. campsite west of Threemile Lake (tent icon): MILES
 - 4. Total distance of Saturday’s travel route (add distances estimated for 1 – 3 above): MILES

 - C. SUNDAY TRAVEL ROUTE
 - 1. From Sa. campsite to where Threemile Lake North Trail 1338 hits beach: MILES
 - 2. Where Threemile Lake North Trail 1338 hits beach north to Tahkenitch Cr. stream crossing: MILES
 - 3. Tahkenitch Creek stream crossing to the Oregon Dunes Overlook (end of trip): MILES
 - 4. Total distance of Sunday’s travel route (add distances estimated for 1 – 3 above): MILES

 - D. What is the total distance hiked on the outing (add results of A, B, and C above) MILES

04. To convert a TN bearing to a MN bearing when you are W of the agonic line, do you add or subtract declination?

05. Provide the following **TN bearings and MN bearing equivalents**:

<u>FROM</u>	<u>TO</u>	<u>TN BEARING</u>	<u>AS A MN BEARING ?</u>
Taylor Dunes trailhead (TH)	Jct. of Taylor/Carter Dunes trails
Jct. of Taylor/Carter Dunes trails	X at OR Dunes Overlook
Friday's camp (tent icon)	Mouth of Tahkenitch Creek
Mouth of Tahkenitch Creek	Center of Butterfly Lake

06. What is the elevation of the hill located .55 miles at a **TN bearing** of 144° FROM the SE tip of Butterfly Lake?

07. Name the feature that lies at a **MN bearing** of 20° and a distance of 2.3 kilometers FROM the mouth of Tahkenitch Cr.
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08. Use the north map for this Q. You are on top of a prominent hill. A **MN bearing** TO campsite 1 (center of tent symbol) reads 243° , and a **MN bearing** TO the "x" at the start of the Dunes Overlook Trail reads 315° . What prominent hill are you on?