

Unless otherwise noted each challenge heading is a separate scenario.

All bearings are based on true north using the printed declination.

All GPS coordinates are WGS84 unless otherwise noted.

This is a continuation of the Navigation Challenge from 2010,02. You do not need to have completed this Navigation Challenge in order to attempt this one.

### **Compass Skills:**

Finally you arrive at Jasper Lake and plan on summiting Mt Kemsley (*West of lake*) the next day. While at camp (red tent symbol) you plan the next day's route from camp up the drainage to Storm Lake and then turning southwest up the ridge to the summit.

- a. The next day after skiing about an hour along your planned route from camp you realize that the novelty of cooking a pineapple upside down cake in your Dutch Oven on the summit is not worth the weight. So you stash the Dutch Oven, pineapple and cake mix along the stream. To help find your stash on the way back down you measure a field bearing off of Mt Kemsley and get  $244^\circ$ . **Plot this bearing** on your map and mark the spot on your map with an "X".

### **Map Interpretation:**

Using the Mt Weir map, you are now at the summit of Mt Kemsley, where the view is breath taking, what landmarks can you see (assume no tree or atmospheric interference)? Circle the ones you think can be seen (*Letters in parenthesis designate general direction landmark is from Mt Kemsley*):

- Upper Storm Lake (*NW*)
- Upper Diamond Lake (*N*)
- Chittenden Mt (*E*)
- Diamond Lake (*NE*)

### **Compass Skills (continued):**

After a measly lunch of GORP on the summit of Mt Kemsley you start skiing back to your stash (marked "X") on a slightly different route. Finally starved you arrive at the stream and find your previous tracks covered by light blowing snow, great!

Now which way do you go to get to the stash? Upstream or downstream? Confused you measure another field bearing off Mt Kemsley and get  $252^\circ$ . **Plot this bearing** on your map and mark this spot with a dot and a "C". Using this as your current location determine which way you need to go to get to your stash: Upstream or Downstream?

### **GPS**

Using the sunset/sunrise feature on your GPS (not available on all units, see our resources page for on-line options) determine the time the sun will set for your campsite (use 3/30/2010 as the date). Will you have more or less daylight time because of your surrounding landforms?

Email us for a free PDF of marked answers. You can also order a complete explanation of how to arrive at these answers through the order page on our website.