

**GEOG 226**  
**Horizontal Measures Lab**

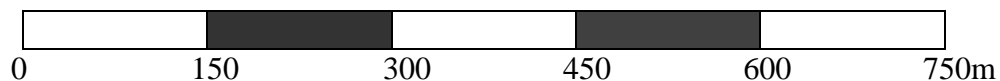
Name: \_\_\_\_\_

Answer the following questions in a neat and organized fashion. Show all calculations and be sure to include units. Neatness will be a consideration in marking. Staple this sheet as the title page for your assignment.

1. Express the following as representative fractions (1: xx,xxx):  
a) 1 cm = 250 m                      b) 1" = 240'                      c) 1" = ¼ mi.

2. Draw a scale bar that depicts 5 kilometers for a scale of 1: 50,000. Each kilometer should be marked so that the bar has five sections.

3. Determine the scale, as a representative fraction, of the scale bar below.



4. The distance between two features on a photo is 10.50 cm and the corresponding distance is 5 km on the ground. Calculate the approximate scale of the photo.

5. The two points below represent wildlife trees on a map and the distance between the two trees is 980 metres on the ground. Calculate the scale.



6. The distance between two road intersections measures 13.55 cm on a 1" = ½ mile air photo. Calculate the ground distance (in metres).

7. Calculate the length (in cm) of 2 miles on a 1:250,000 map.

8. One cm is measured on a 1: 50,000 map. Calculate length (in cm) that would represent the same ground distance on a 1'' = 5,280 ft map.

9. Calculate the scale of the 1891 map of Nanaimo as a representative fraction.

10. Calculate the scale of the Nanaimo Project map (don't trust the scale provided as it has been altered on the photocopier ... insert evil laugh).

11. Calculate the scale of air photo BCC207.