FRST 121T

Horizontal Measures Lab

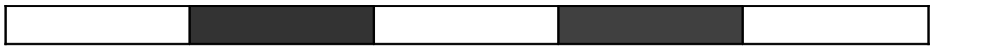
Name: _____

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 a ratio (representative fraction):
   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. The scale bar below depicts what scale (as a representative fraction)?



4. The distance between two features on a photo is 10.5 cm and the corresponding distance is 5 km on the ground. What is the approximate scale of the photo?

5. The two points below represent landings on a logging map and the distance between the two landings is 980 metres on the ground. Calculate the scale of the very basic sketch below (i.e. it simply consists of 2 points).

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6. The distance between two wildlife trees measures 13.5 cm 1" = ½ mile air photo. What is the ground distance (in metres)?

7. What is the length (in mm) of 2 miles on a 1:250,000 map?

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

9. What is the scale of the 1891 map of Nanaimo as a representative fraction?

10. What is the scale of the other Nanaimo map?