C:\Documents and Settings\tilta\Local Settings\Temporary Internet Files\Content.IE5\Q49E4I68\MC900001524[1].wmfMap Skills Exercise – Caribou Country

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Compass Bearings, Directions, Map Distance and Ground Distance

Situation

A grade 12 class of geographers has challenged your grade 9 class to an orienteering contest through Caribou County. Your class has decided to take a northerly route while the grade 12’s have decided to take a southerly route. Your task is to plot both routes on the map of Caribou County (On the back)

Route 1

Starting a grid reference 955335, your group heads out on a bearing of 360° for 2.25 km (Stop 1). From stop 1 your group decided to travel on a bearing of 98° for a map distance of 7 cm or a ground distance of \_\_\_\_\_\_\_ km (Stop #2). After a short pause, your leader, Orietta, suggests that the grade 9 class head in a southeast direction for 5.5 km (Stop 3). From stop 3 you travel due south for a map distance of 2 cm or a ground distance of \_\_\_\_\_\_km (Stop #4). It has been decided that your group should travel on a bearing of 247° from stop 4 to stop 5 for 1.25 km and on a bearing of 145° from stop 5 to the finish point a distance of 1.5 km

Route 2

Starting at grid reference 955335, the grade 12’s decided to travel in a south-southwest direction for 1.25 km (Stop A). After precise measurements the grade 12’s decide that they must travel on a bearing of 142° for 3.75 km (Stop B). At stop B the group decides to head out on a bearing of 104° for a map distance of 3.5 cm or a ground distance of \_\_\_\_\_km (Stop C). From Stop C the grade 12’s travel on a bearing of 207° for 3 km (Stop D). After a short break at Stop D they decided to travel due east for 3.75 km (Stop E). From Stop E, the 12’s decide that a bearing of 27° and a distance of 2.5 km will bring them to their finish point.

Questions

1. What is the grid reference for the finishing points of?
   1. Route 1\_\_\_\_\_\_\_\_\_\_\_\_
   2. Route 2\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the length of both routes?
   1. Route 1\_\_\_\_\_\_\_\_\_\_\_\_
   2. Route 2\_\_\_\_\_\_\_\_\_\_\_\_
3. Which of the two routes is shorter