

Go the Distance

1. List 4 factors that might affect how and where you travel on a trip.

- i) _____
ii) _____
iii) _____
iv) _____

2. What other factors did your classmates think of? _____

Local Map

There are various features on a map that will allow you to get accurate or estimated distances between places. Use a **local or city map** to answer the following questions.

1. a) Find the scale on your map (hint: it is often in the legend). What is the scale for your map?

_____ cm = _____ km

- b) Choose 2 places on your map (they could be local landmarks or just intersections)

Place 1: _____ Place 2: _____

- c) Use a ruler to measure the distance (in centimetres) between the two places you chose.

Distance: _____ cm

- d) Use this distance and your scale to calculate the actual distance between these two places.

Calculations:

Actual distance (as the crow flies) _____ km.

We call this the distance “as the crow flies” because we are ignoring the fact that we would have to actually follow streets or roads.

- e) Use a string to measure the distance between the two places but this time bend the string to follow the roads.

Length of string: _____ Actual distance: _____

Show calculations:

- f) How does this distance compare to the distance “as the crow flies”? Which is more accurate?

Name: _____

Date: _____

2. Use both methods from the previous page to find the distance between the following places on your map. (Fill in the locations your teacher gives you).

Start location	Finish location	Distance as the crow flies.	Distance following the roads.

3. Finding the shortest route.

Your teacher will give you 2 locations and it is your job to find the shortest route between those places. Include clear directions for your route.

Start: _____ Finish: _____

Directions for your route:

Distance for your route: _____