

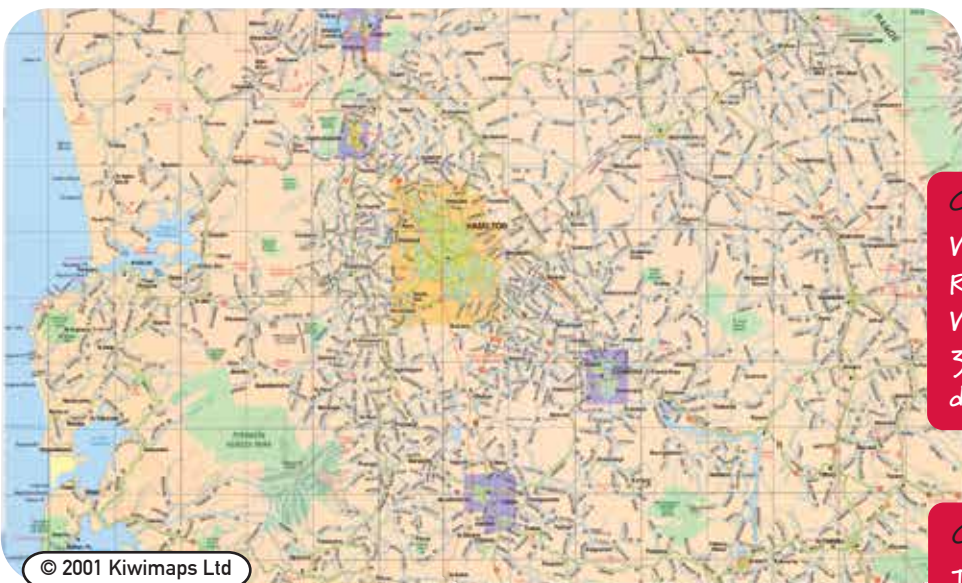
Ringing the Road

You need ✓ string ✓ a ruler ✓ a photocopy of the enlarged map

Activity

Paulo's older brother and sister went on a cross-country cycling tour of the Waikato. Each evening, they called Paulo on their cellphone and gave him clues so that he could work out on his map where they were each night. They told him to measure the distances in a straight line on the map. (They knew that the roads and tracks they rode on would be difficult to measure.)

1. Use Paulo's clues to work out where the cyclists stopped each evening. Mark the route on your copy of the map.
2. After the fifth day, Paulo's older brother and sister asked him to work out how far they were from Percival Road and what direction they needed to travel in. What did he tell them?



Clue 1 (Monday):

We started from the end of Percival Road on the west side of Hamilton City. We're staying in a small town that is 38 kilometres in a northeasterly direction from where we started.

Clue 2 (Tuesday):

Today we rode in a southeasterly direction and checked out the entrance to a rail tunnel that was 26 kilometres away. We're now camping 9.5 kilometres south of the tunnel, 1 kilometre from the nearest town.

Clue 3 (Wednesday):

We rode west today. Our campsite is 23 kilometres from where we slept last night.





Clue 6 (Saturday):
Today we followed a winding road until we reached the springs on the west coast.



Clue 5 (Friday):
Today we stopped for a while at a lake 12 kilometres to the west. Now we're in a town again, 23 kilometres southwest from the lake.

Clue 4 (Thursday):
We're 1 kilometre from another town tonight! We're 20 kilometres southwest from last night's campsite.

