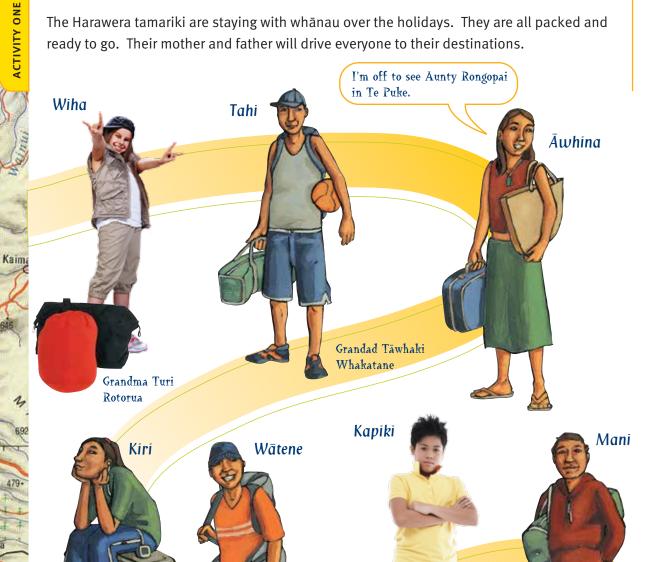
## Holiday Drop-offs

You need: a copy of the second map

The Harawera tamariki are staying with whānau over the holidays. They are all packed and ready to go. Their mother and father will drive everyone to their destinations.



Mrs Harawera looks at the map as they head out of Hamilton.

Aunty Pera

Te Kuiti

They want to take the shortest route possible, using the main state highways.

Use the map on the next page to work out which route the Haraweras should take to drop off each tamaiti and return to Hamilton.

Cousin Rewa

Tokoroa

Uncle Hirini

Paeroa

How many kilometres would the shortest route be?

Using networks to solve problems

Katikatio

urangaomoana

Okauia >

Tapapa

ichfield

Whetu

TOKORO

Uncle Poutū Tīrau



3. Some of the tamariki keep asking how far it is to their drop-off place.

Mrs Harawera makes a distance model on the dashboard like this:

Hamilton

## Paeroa

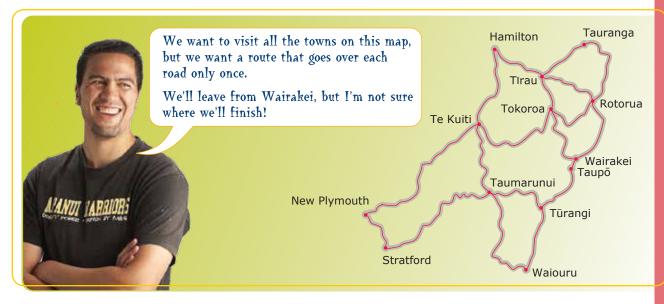
## Te Pvke

## Rotorva

**Hamilton** 

She moves the toy car to show how much of the journey has passed. Draw the distance model Mrs Harawera would use to show the route you made up for question 1. Be sure to use a scale so that each town is in its correct place.

1. Cousin Rewa's older brother Arapeta lives in Wairakei. He and two of his friends are planning a holiday.



- **a.** Is there such a route? Explain your answer.
- **b.** Where does the journey finish?
- 2. Design a route to visit towns in your area, travelling each road only once.