

# My Town

**You need** ★ a computer spreadsheet program ★ classmates

## Activity

Keni lives in Rangipai, a small rural town where about 200 families live. As part of a class project, he surveys the 20 houses in his neighbourhood. For each house, he finds out how many people live there and how many TV sets, cars, and bedrooms they have.

Keni draws a diagram of his neighbourhood and enters his data on it:

**Kea Street**

<b>Marae</b>	2 people, 1 TV, 2 cars, 2 bedrooms	3 people, 1 TV, 2 cars, 3 bedrooms	Church	4 people, 1 TV, 2 cars, 3 bedrooms
3 people, 2 TVs, 1 car, 2 bedrooms	6 people, 1 TV, 2 cars, 4 bedrooms	7 people, 2 TVs, 3 cars, 4 bedrooms	4 people, 1 TV, 4 cars, 2 bedrooms	8 people, 2 TVs, 1 car, 3 bedrooms

**Weka Street**

5 people, 1 TV, 3 cars, 4 bedrooms	2 people, 1 TV, 1 car, 3 bedrooms	Playground	7 people, 1 TV, 2 cars, 3 bedrooms
4 people, 1 TV, 2 cars, 3 bedrooms	3 people, 2 TVs, 1 car, 3 bedrooms	2 people, 1 TV, 2 cars, 2 bedrooms	2 people, 1 TV, 1 car, 2 bedrooms
1 person, 1 TV, 1 car, 3 bedrooms	1 person, 1 TV, 1 car, 1 bedroom	7 people, 1 TV, 1 car, 1 bedroom	1 person, 1 TV, 1 car, 3 bedrooms
8 people, 1 TV, 2 cars, 3 bedrooms	5 people, 2 TVs, 2 cars, 4 bedrooms	Dairy	2 people, 1 TV, 2 cars, 1 bedroom

**Tawa Street**

**Rata Street**

**Key**

- Person icon: People
- TV icon: TVs
- Car icon: Cars
- Bed icon: Bedrooms

He also enters his data into a spreadsheet:

◇	A	B	C	D	E
1	House	People	TVs	Cars	Bedrooms
2	A	2	1	2	2
3	B	3	2	1	2

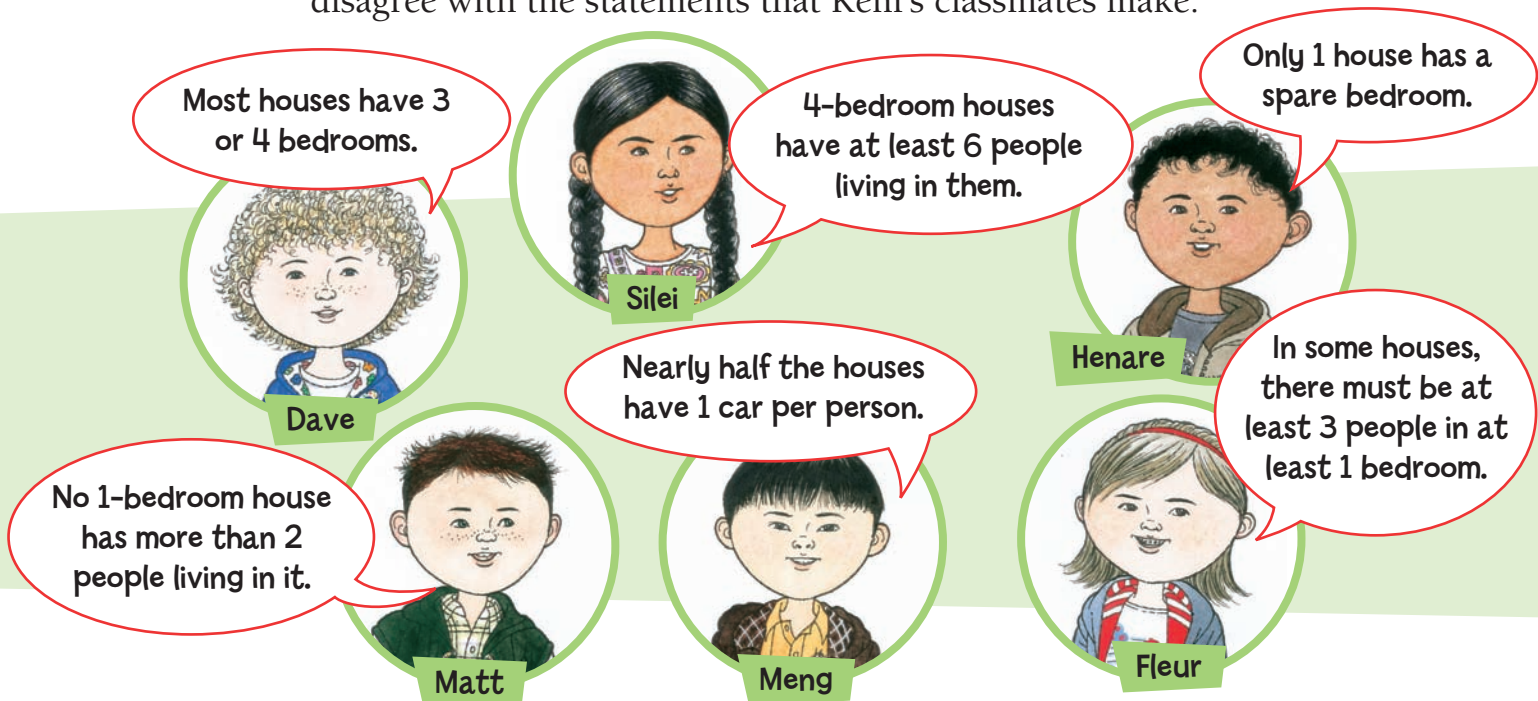
- Copy and complete the spreadsheet. Use it to sort the data in ways that will help you answer the following questions.

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I wonder if the households with more than 1 TV also have more than 1 car?

I wonder if the biggest families live in the biggest houses?

- Working with a classmate, investigate Keni's two questions. What conclusions can you reach?
  - Discuss your conclusions with another pair of classmates. Try and reach agreement on what the data says.
- Keni presents his findings to the class. Write down why you agree or disagree with the statements that Keni's classmates make:



Most houses have 3 or 4 bedrooms.

4-bedroom houses have at least 6 people living in them.

Only 1 house has a spare bedroom.

Nearly half the houses have 1 car per person.

In some houses, there must be at least 3 people in at least 1 bedroom.

No 1-bedroom house has more than 2 people living in it.

**Dave**

**Silei**

**Henare**

**Matt**

**Meng**

**Fleur**

- Compare your explanations with those of a classmate.
- Could Keni use his data to make generalisations about the homes and community facilities in Rangipai as a whole? Why or why not?