Pareto's "rule" is based on an observation by a famous economist, Vilfredo Pareto (1848-1923). The rule is:

80 percent of the effects typically come from 20 percent of the causes.


I wonder what this means in terms of eco-footprints?

Broadly speaking:

- most people in developed countries have a high standard of living
- most people in developing countries have limited resources.


## Activity One

1. People in developed countries use resources at a rate similar to Adena's (see pages $4-5$ ). If all the people in the world (100 percent) lived like Adena, we'd need 3.6 Earths to support them.

In 2009, only 1168530000 of the world's 6778070000 people lived in developed countries.
a. What percentage of people live in developed countries?
b. How many Earths are consumed by people in developed countries?
c. How much of Earth's resources are left for people in developing countries?
d. What percentage of people live in developing countries?
e. If everyone in the world lived like the average person in a developing country, at what rate would they consume Earth's resources?

2. Talei wonders if Pareto's rule is a good estimate for resources used by developing countries.
a. How much of Earth's renewable resources does Pareto's rule predict the top 20 percent of consumers would use?
b. How well does Pareto's rule predict the actual share of Earth's resources used by developed and developing countries?
3. Why might people use a rule of thumb like Pareto's rule even if it's not perfect?

## Activity Two

- In 2005, humanity's total ecological footprint was estimated at 1.3 Earths (in other words, we used 30 percent more resources than Earth could renew).
- The total land area of Earth is about 13056 million hectares.
- At the start of 2009, the world had 6778070000 people.


