



## Problem of the Week

### Problem B

### How Dense is This?

In honour of Canada 150, let's explore how much space it has. In terms of its land area, 9 156 521 km<sup>2</sup>, Canada is the fourth largest country in the world. Russia, China, and the U.S.A. have greater land area, but Canada's population is significantly less.

- a) Find the area and population\* of the following countries. Add three of your own choices to the table.

Country	Land Area	Population	Persons per km <sup>2</sup>
Canada	9 156 521 km <sup>2</sup>	36.63 million	≈ 4.0 persons/km <sup>2</sup>
Russia			
Japan			
Ukraine			
India			
Finland			
Brazil			
Sudan			

- b) Which countries have the least, and greatest, population density? In each of these two countries, how many square km of land area are there for each person?
- c) The city of Mumbai in India has an area of 603.4 km<sup>2</sup>, and a population of 21.69 million. How many square **metres** of land area are there for each person in Mumbai?
- d) How many square **metres** of classroom space are there for each person in your classroom?

\* For populations and areas, try the website

<http://www.worldometers.info/world-population/population-by-country/>

NOTE: Land area data varies, depending on your chosen source.

**STRAND DATA MANAGEMENT AND PROBABILITY**

