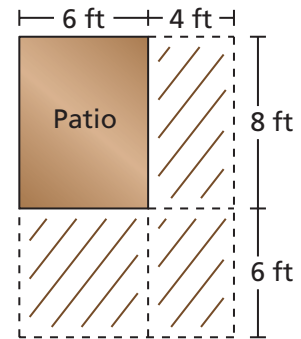


1.1–1.2 Quiz

Patio You are expanding a patio as shown. In Exercises 1 and 2, use the diagram.



- Which of the following keystroke sequences is better for finding the area that you are adding to the patio? Explain your reasoning.
 - $(1 0 \times 1 4 - 6) \times 8 =$
 - $(1 0 \times 1 4) - (6 \times 8) =$
- You are laying 1-foot by 1-foot tiles. You estimate that it will take you 1 hour to lay 45 tiles. Estimate how long it will take you to tile the area that you are adding to the patio.

Population Density In Exercises 3–6, use the information given in the table.

- Population density is the number of people per unit of area.
 - Use the total area of Canada to estimate the country’s population density.
 - Land area is equal to total area minus water area. Use the land area of Canada to estimate the country’s population density.
 - Do you think population density should be defined in terms of the total area of a country or in terms of the land area? Explain your reasoning.
- Excluding Canada’s three northern territories, the population of Canada is about 34.0 million people, and the land area of Canada is about 5.5 million square kilometers.
 - Estimate the population density of Canada, excluding the three northern territories.
 - How does excluding the territories change your estimate of the population density? Explain your reasoning.
- The population of Toronto is about 2.5 million people, and the land area of Toronto is about 630 square kilometers.
 - Estimate the population density of Toronto.
 - How does your estimate for Toronto compare to your estimates for Canada?



Canada	
Population (2010)	34,108,800
Total area	9,984,670 km ²
Water area	891,163 km ²

- Do you think that population density is an accurate measure of a country’s population distribution? Explain your reasoning.