1. The following five Aboriginal writers from across Canada toured Australia. They gave readings and lectures, and they participated in panels and workshops. Categorize these writers using a Venn diagram.
   - Louise Halfe, poet
   - Lee Maracle, poet, novelist
   - Rita Mestokosho, poet
   - Armand Ruffo, poet, fiction writer
   - Richard Van Camp, poet, fiction writer

2. Consider these sets:
   $U = \{x \mid x \leq 24, x \in \mathrm{N}\}$ $B = \{x \mid 3x \leq 24, x \in \mathrm{N}\}$
   $A = \{x \mid 2x \leq 24, x \in \mathrm{N}\}$ $C = \{x \mid 4x \leq 24, x \in \mathrm{N}\}$
   a) Show that $C \subset A$ using a Venn diagram.
   b) Determine $A \cup B$, $n(A \cup B)$, $A \cap C$, and $n(A \cap C)$.
   c) Determine $A \cap B \setminus C$.
   d) Determine $(A \cup B \cup C)'$.

3. A survey of students in a school cafeteria had these results:
   - 50% of the students drink bottled water.
   - 56% eat fruit.
   - 43% follow a low-fat diet.
   - 22% drink bottled water and follow a low-fat diet.
   - 23% follow a low-fat diet and eat fruit.
   - 27% drink bottled water and eat fruit.
   - 15% drink bottled water, follow a low-fat diet, and eat fruit.
     What percent of the students do not drink bottled water, do not follow a low-fat diet, and do not eat fruit?

4. Write each statement in "if p, then q" form. Then write the inverse. Determine whether the statements are biconditional, and explain your reasoning. If a statement is biconditional, write it as a biconditional statement. If it is not, state a counterexample.
   a) To win an election, you must get the most votes.
   b) Earth is the third planet from the Sun.
   c) Any number between 1 and 2 is not a whole number.

5. For each conditional statement below,
   i) verify it, or disprove it with a counterexample,
   ii) verify the converse, or disprove it with a counterexample,
   iii) verify the inverse, or disprove it with a counterexample, and
   iv) verify the contrapositive, or disprove it with a counterexample.

   a) If you are over 18, then you are an adult.
   b) If you are 16, then you can drive.

WHAT DO You Think Now? Revisit **What Do You Think?** on page 145. How have your answers and explanations changed?

Louise Halfe was raised on the Saddle Lake First Nation, in Alberta.

Lee Maracle grew up next to the Tsleil-Waututh Nation (Burrard Reserve) in North Vancouver.

Rita Mestokosho is an Innu, born in Ekuanitshit (Mingan) in Québec.

Armand Ruffo is an Ojibway, born in Chapleau, Ontario.

Richard Van Camp is a member of the Tlicho (Dogrib) Nation of the Northwest Territories.