This miniproject asks you to investigate the concept of *multisets*. The definition is given in your textbook just before Exercise 59.

- (a) Define the multisets A, B, and C as follows.
  - $A = \{2 \cdot Abby, 1 \cdot Sara, 1 \cdot Mark, 2 \cdot James\}$
  - $B = \{2 \cdot \text{Tyler}, 2 \cdot \text{Mark}, 5 \cdot \text{James}, 1 \cdot \text{Damilola}\}\$
  - $C = \{4 \cdot Abby, 5 \cdot Sara, 2 \cdot Tyler, 2 \cdot Mark, 5 \cdot James, 1 \cdot Damilola\}$

Find each of the following.

- (i)  $A \cap B$
- (ii)  $A \cup C$
- (iii) B-C
- (iv) C + A
- (v)  $B \cap (C A)$
- (b) Do #60 in the Section 2.2.