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.

 $A = \{2 \cdot \text{Abby}, 1 \cdot \text{Sara}, 1 \cdot \text{Mark}, 2 \cdot \text{James}\}$ $B = \{2 \cdot \text{Tyler}, 2 \cdot \text{Mark}, 5 \cdot \text{James}, 1 \cdot \text{Damilola}\}$ $C = \{4 \cdot \text{Abby}, 5 \cdot \text{Sara}, 2 \cdot \text{Tyler}, 2 \cdot \text{Mark}, 5 \cdot \text{James}, 1 \cdot \text{Damilola}\}$ 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.