

## PROBLEMS

**Problem 1** (This problem is adapted from Primary Math 6A, page 24.) The ratio of the length of  $A$  to the length of  $B$  is  $2 : 5$ .

- a) Draw a bar diagram representing this situation.
- b) What is the ratio of the length of  $A$  to the total length of  $A$  and  $B$ ?
- c) The length of  $A$  is which fraction of the total length?
- d) The length of  $B$  is which fraction of the total length?
- e) The length of  $A$  is which fraction of the length of  $B$ ?
- f) The length of  $B$  is which fraction of the length of  $A$ ?

**Problem 2** (This problem is Example 1.14 on page 172 of P & B.) A bag contains 6 white and 10 red marbles. Then 4 white marbles and 20 red marbles are added to the bag. What is the new ratio of white to red marbles? Please see P & B for student solutions. Make sure you know which one is right and what the other two students are doing incorrectly.