

10 There are only red counters and yellow counters in bag **A**.

$$\text{number of red counters} : \text{number of yellow counters} = 3 : 5$$

There are only green counters and blue counters in bag **B**.

The number of counters in bag **B** is half the number of counters in bag **A**.

Given that there are x red counters in bag **A**,

use algebra to show that the total number of counters in bag **A** and bag **B** is $4x$