

1

A box contains 10 light bulbs, fewer than half of which are defective. Two bulbs are to be drawn simultaneously from the box. If n of the bulbs in box are defective, what is the value of n ?

- (1) The probability that the two bulbs to be drawn will be defective is $1/15$.
- (2) The probability that one of the bulbs to be drawn will be defective and the other will not be defective is $7/15$.

2

If x is to be selected at random from T , what is the probability that $\frac{1}{4} * x - 5 \leq 0$?

- (1) T is a set of 8 integers.
- (2) T is contained in the set of integers from 1 to 25, inclusive.