Write the probability statement for each of the following:

Once you have written the probability statement, use the following data to calculate each of the following.

Suppose there are dogs and cats in a pet shelter. The following statements apply to the animals in the shelter.

(1) What is the probability that a randomly selected animal is black?

(2) What is the probability that a randomly selected animal is a cat?

(3) What is the probability that a randomly selected animal is a black cat?

(4) What is the probability that a randomly selected cat is black?

(5) What is the probability that a randomly selected animal is black, or a cat, or both?

(6) What is the probability that a randomly selected black animal is a cat?

	Cat	Dog	Total
Black	25	18	43
Not Black	35	22	57
Total	60	40	100