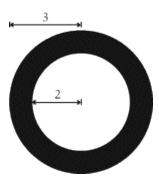1. What is the probability of throwing a dart into the shaded area of the dartboard? Write your answer as a decimal.

2. A teacher keeps a jar full of different flavored jelly beans on her desk and hands them out randomly to her class. But one particularly picky student likes only the licorice-flavored ones. If the jar has 50 beans in all—15 licorice, 10 cherry, 20 watermelon, and 5 blueberry—what is the probability that the first three jelly beans picked out are licorice flavored? Write your answer as a fraction.

3. A jar contains four blue marbles and two green marbles. Without looking, two marbles are drawn from the jar. What is the probability that two marbles of the same color will be selected?

    a) 1/9
    b) 2/9
    c) 1/3
    d) 7/15
    e) 7/9