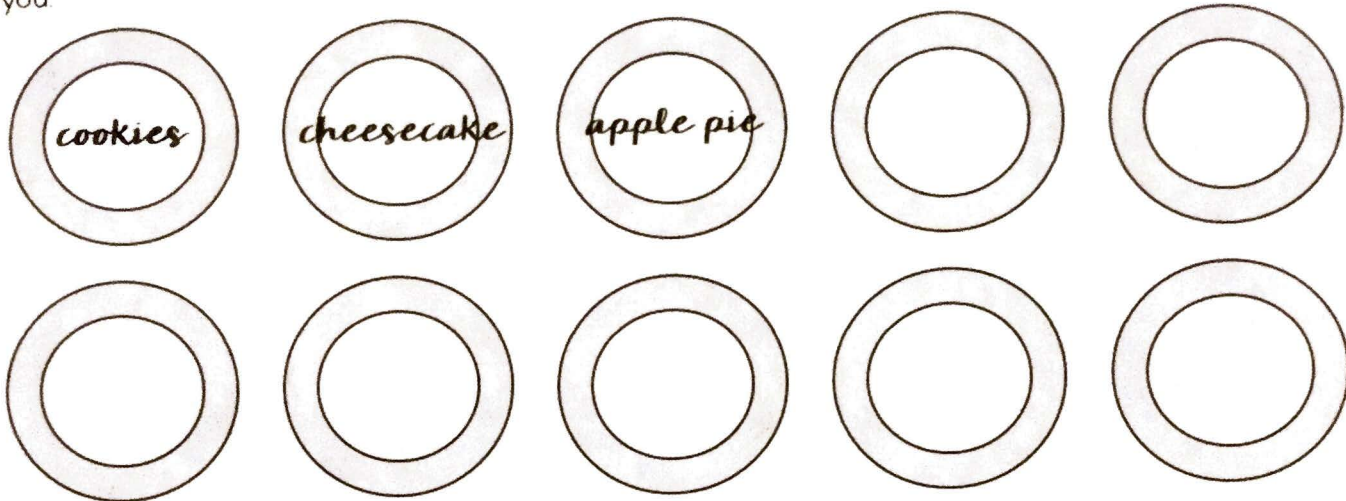


PART 5: FOOD (COMPOUND PROBABILITY)

At one of your restaurants, a variety of desserts are placed on the counter for people to buy at the end of their meals. Some of your best sellers include cheesecake, cookies, and apple pie. Label the plates below with the three desserts. The first few have been done for you.



USE THE ABOVE INFORMATION TO ANSWER THE QUESTIONS BELOW:

- 1) What is the probability of a person randomly selecting a cheesecake, putting it back, and then selecting a cookie? Express your answer as a fraction, decimal, and percent.
- 2) What is the probability of a person randomly selecting an apple pie, eating it, and then selecting another apple pie? Express your answer as a fraction, decimal, and percent.
- 3) What is the probability of a person randomly selecting a cookie, giving it to their friend, and then randomly selecting a cheesecake? Express your answer as a fraction, decimal, and percent.
- 4) What is the probability of a person randomly selecting an apple pie, putting it back, and then selecting a cookie? Express your answer as a fraction, decimal, and percent.
- 5) What is the probability of a person randomly selecting a cheesecake, eating it, and then selecting an apple pie? Express your answer as a fraction, decimal, and percent.