

Name: Master Key

Date: \_\_\_\_\_ Period: \_\_\_\_\_

## INDEPENDENT AND DEPENDENT EVENTS

Identify as independent or dependent.

- ① Rolling a die and spinning a spinner independent
- ② selecting a skittle, eating it, selecting another dependent
- ③ Choosing a marble, replacing it, and choosing another independent
- ④ selecting a m&m, eating it, and rolling a die independent

Find the probability for these events.

- ⑤ Rolling a 3 on a die and getting heads on a penny  $\frac{1}{12} = 8.3\% = .08\bar{3}$
- ⑥ Rolling a die and getting an even number. Rolling the die again and getting a 5.  $\frac{1}{12} = 8.3\% = .08\bar{3}$
- ⑦ There are 4 red skittles, 6 yellow, and 2 green in a bag. Find the probability of choosing a red, eating it, and then choosing a green.  $\frac{2}{33} = 6\% = .06$
- ⑧ Using same information in #7, choosing a yellow, eating it, then choosing another yellow.  $\frac{5}{22} = 22.7\% = .22\bar{7}$