Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_

**10.5B HW**

*Objective: identify independent and dependent events; use formulas to find probabilities of independent and dependent events (CC.SS.7.SP.8a and CC.SS.7.SP.8b. MP3 Construct Viable Arguments)*

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| 1. In a bag there are 2 red marbles, 3 white marbles and 5 blue marbles. Once a marble is selected, it is replaced. Find the following probabilities:
2. Independent event or dependent event? Explain.
3. P(white, blue)
4. P(white, white)
5. P(blue, white, red)
6. P(blue, blue, blue)
 | 1. A jar contains 4 white chips, 5 purple chips, and 1 black chip. Chips are selected randomly one at a time, and are not replaced. Find the probability of the following:
2. Independent event or dependent event? Explain.
3. P(purple, then black)
4. P(black then white)
5. P(white then purple)
6. P(2 whites)
7. P(2 purples)
8. P(2 blacks)
9. P(white, then purple, then black)
10. P(3 whites)
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