

2pts

1. a. If a fair coin is tossed three times, how many possible outcomes are there?

b. What is the probability of getting one head and two tails on the three tosses?

3pts

2. a. Two fair dice are rolled. What is the probability that the sum is 10?

b. What is the probability that the sum is not 10?

3. A bag contains 8 red balls, and 5 white balls, and 4 blue balls.

6 pts.

a. **Draw a probability tree diagram** to illustrate drawing one ball from the bag and then drawing a second ball from the bag (without replacing the first ball).

4pts

Use the tree diagram to help you answer the following question:

b. What is the probability of getting a red ball and a white ball?