



# REFRESH

Madison plans to sew one button and one ribbon on a clown costume. She has one each of the following colors of buttons in her pocket:

- black
- green
- red
- white

All the buttons are the same size and shape.

Madison will select one button from her pocket without looking.

- a. What is the probability that she will select a red button? Show or explain how you got your answer.

Madison has one each of the following colors of ribbon in a bag:

- black
- white
- yellow

All the ribbons are the same size and material.

She will select one button from her pocket and one ribbon from her bag without looking.

- b. Make an organized list or a tree diagram showing all the possible color combinations that Madison could select.
- c. What is the probability that Madison will select a black button and a black ribbon? Show or explain how you got your answer.
- d. What is the probability that Madison will select a button and a ribbon that are **different** colors from each other? Show or explain how you got your answer.