

Name _____

Tree Diagram

Directions: Create a tree diagram to list all possible outcomes, and then answer the questions.

1. Your dad is ordering a new car. He has 5 color choices: red, white, silver, purple, and green. He has a choice of two interior colors: tan or beige.
 - a. Create a tree diagram to list all possible outcomes.
 - b. What is the probability of having a tan interior?

- c. What is the probability of having a red or white car with beige interior? _____

- d. Write your own probability problem using the tree diagram you created.

2. How many different 4-digit numbers can be formed from the 4 numbers below using each digit only once?

3

7

2

5

- a. Create a tree-diagram to list all possible outcomes.
- b. What is the probability of having the number 3 as the first or third digit? _____
- c. What is the probability of having the digits 7, 3, or 2 as the last digit? _____
- d. What is the probability of having the digit 5 in the number? _____

- e. Write your own probability problem using the tree diagram you created.
