

Tree Diagram Problems

Part 2

Date _____

Class _____

19

Draw a tree diagram to list all the possible outcomes for the following problems.

1. You are at a carnival. One of the carnival games asks you to pick a door and then pick a curtain behind the door. There are 3 doors and 4 curtains behind each door. How many choices are possible for the player?
2. The 4 aces are removed from a deck of cards. A coin is tossed and one of the aces is chosen. What is the probability of getting heads on the coin and the ace of hearts? Draw a tree diagram to illustrate the sample space.
3. The eighth grade graduation party is being catered. The caterers offer 4 appetizers, 3 salads, and 2 main courses for each eighth grade student to choose for dinner.
4. A spinner has 4 equally likely regions numbered 1 to 4. The arrow is spun twice. What is the probability that the spinner will land on a 1 on the first spin and on a 2 region on the second spin? Draw a tree diagram to represent your answer.

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.
Make a list or table for #5+6

5. There are 3 pens and 2 highlighters on a desk. There is 1 green pen, 1 blue pen and 1 red pen. There is 1 yellow highlighter, and 1 pink highlighter. What are the possible outcomes if you pick one pen and one highlighter from the desk?
6. You pack 2 pairs of pants, 3 shirts, and 2 sweaters for your vacation. List all of the outfits you can make.