Make Choices

In each chart, you have one choice from each column. Make an organized list and a tree diagram to show all the possible choices for each chart.

1. **Sports Events**
   - **Sport**: Hockey, Basketball, Football
   - **Level**: College, Pro

2. **Drinks**
   - **Size**: Small, Medium, Large, Extra Large
   - **Flavor**: Cola, Orange, Grape, Fruit Punch

3. **Books**
   - **Type**: Paperback, Hardcover
   - **Level**: History, Mystery, Fantasy, Romance, Sci-Fi

You have one choice from each category. Multiply to find the number of choices possible.

4. 3 cars, 8 colors
   - 3 cars \( \times 8 \) colors = 24 choices

5. 4 movies, 4 snacks
   - 4 movies \( \times 4 \) snacks = 16 choices

6. 6 topics, 3 projects
   - 6 topics \( \times 3 \) projects = 18 choices

7. 10 entrees, 7 desserts
   - 10 entrees \( \times 7 \) desserts = 70 choices

8. 4 rings, 5 stones
   - 4 rings \( \times 5 \) stones = 20 choices

9. 6 dog, 9 collars
   - 6 dog \( \times 9 \) collars = 54 choices

**Test Prep**

10. Cherie wants to order soup and a sandwich. The soups are vegetable, black bean, and chicken. The sandwiches are tuna fish, chicken, egg salad, and tofu burger. How many choices does she have?

   - A 4
   - B 8
   - C 12
   - D 16

11. Angela is writing a story. Each character will be a boy, a girl, or a talking animal. Each character will have or will not have special powers. How many choices does she have for characters?

   - A
   - B
   - C
   - D