35. ★ **TAKS REASONING** Every student in your history class is required to present a project in front of the class. Each day, 4 students make their presentations in an order chosen at random by the teacher. You make your presentation on the first day.

    a. What is the probability that you are chosen to be the first or second presenter on the first day? *Explain* how you found your answer.

    b. What is the probability that you are chosen to be the second or third presenter on the first day? *Compare* your answer with that in part (a).

36. HISTORY EXAM On an exam, you are asked to list 5 historical events in the order in which they occurred. You guess the order of the events at random. What is the probability that you choose the correct order?

37. SPIRIT You make 6 posters to hold up at a basketball game. Each poster has a letter of the word TIGERS. You and 5 friends sit next to each other in a row. The posters are distributed at random. What is the probability that TIGERS is spelled correctly when you hold up the posters?

38. BAND COMPETITION Seven marching bands will perform at a competition. The order of the performances is determined at random. What is the probability that your school band will perform first, followed by the band from the one other high school in your town?

39. CHALLENGE You are one of 10 students performing in a school talent show. The order of the performances is determined at random. The first five performers go on stage before the intermission, while the remaining five performers go on stage after the intermission.

    a. What is the probability that you are the last performer before the intermission and your rival performs immediately before you?

    b. What is the probability that you are *not* the first performer?

MIXED REVIEW FOR TAKS

40. ★ **TAKS PRACTICE** A camp counselor buys 4 bottles of water per person for a camping trip. If 35 people are going on the trip and if bottles of water cost $18.09 per case, what other information is needed to find the cost of the bottles of water? *TAKS Obj. 10*

    Ⓐ The number of days of the camping trip

    Ⓑ The cost of cups and ice

    Ⓒ The number of people who drink water

    Ⓓ The number of bottles of water in a case