

PROBLEM SOLVING

EXAMPLE 2

on p. 857
for Ex. 23

23. **RESTAURANT** You are ordering a burrito with 2 main ingredients and 3 toppings. The menu below shows the possible choices. How many different burritos are possible?



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EXAMPLE 3

on p. 857
for Exs. 24–26

24. **WORK SCHEDULE** You work 3 evenings each week at a bookstore. Your supervisor assigns you 3 evenings at random from the 7 possibilities. What is the probability that your schedule this week includes working on Friday?

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25. **TAKS REASONING** On a television game show, 9 members of the studio audience are randomly selected to be eligible contestants.
- Six of the 9 eligible contestants are randomly chosen to play a game on the stage. How many combinations of 6 players from the group of eligible contestants are possible?
 - You and your two friends are part of the group of 9 eligible contestants. What is the probability that all three of you are chosen to play the game on stage? *Explain* how you found your answer.
26. **REPRESENTATIVES** Your teacher chooses 2 students at random to represent your homeroom. The homeroom has a total of 30 students, including your best friend. What is the probability that you and your best friend are chosen? What is the probability that you are chosen first and your best friend is chosen second? Which event is more likely to occur?
27. **CHALLENGE** There are 30 students in your class. Your science teacher will choose 5 students at random to complete a group project. Find the probability that you and your 2 best friends in the science class are chosen to work in the group. *Explain* how you found your answer.



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 13.1;
TAKS Workbook

28. **TAKS PRACTICE** A school newspaper conducts a sports survey of 125 randomly selected students. Of those surveyed, 38 students plan to try out for a sports team next year. If there are a total of 1500 students at the school, how many of them can you expect to try out for a sports team next year? **TAKS Obj. 9**
- (A) 304 (B) 456 (C) 475 (D) 570