Now

In Chapter 10, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 733. You will also use the key vocabulary listed below.

Big Ideas

- Using permutations and combinations
- Finding probabilities
- **(3)** Constructing binomial distributions

KEY VOCABULARY

- permutation, p. 684
- combination, p. 690
- binomial theorem, p. 693
- probability, p. 698
- compound event, p. 707
- overlapping events, p. 707
- disjoint events, p. 707
- independent events, p. 717
- dependent events, p. 718
- conditional probability, p. 718
- random variable, p. 724
- binomial distribution, p. 725

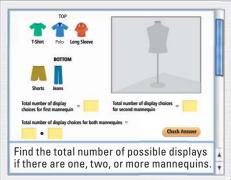
Why?

You can use the fundamental counting principle and permutations to calculate the number of choices for a situation. For example, you can count the number of possible outcomes of an event or the number of ways to complete a task.

Animated Algebra

The animation illustrated below for Exercise 69 on page 689 helps you answer this question: How does the number of clothing choices affect the number of different ways can you dress mannequins in a display?





Animated Algebra at classzone.com

Other animations for Chapter 10: pages 701, 711, 716, 722, and 726