

11

Data Analysis and Statistics



2A.1.B

2A.1.B

a.1

2A.2.A

2A.1.B

11.1 Find Measures of Central Tendency and Dispersion

11.2 Apply Transformations to Data

11.3 Use Normal Distributions

11.4 Select and Draw Conclusions from Samples

11.5 Choose the Best Model for Two-Variable Data

Before

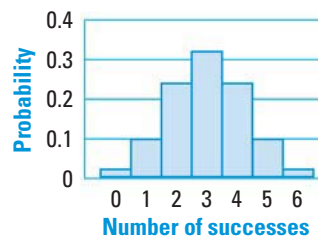
In previous chapters, you learned the following skills, which you'll use in Chapter 11: describing distributions, ordering real numbers, and finding probabilities.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement.

1. The **probability** of an event is a number from $\underline{\quad}$ to $\underline{\quad}$ that indicates the likelihood the event will occur.
2. The **binomial distribution** at the right is not skewed. Instead, it is $\underline{\quad}$.



SKILLS CHECK

Graph the numbers on a number line. Then write the numbers in increasing order. (Review p. 2 for 11.1.)

3. $-\frac{3}{4}$, 0.4 , $\sqrt{7}$, -1.3 , $\frac{2}{3}$, $-\sqrt{12}$
4. 1.5 , $\frac{4}{3}$, -1.24 , $\sqrt{2}$, $-\sqrt{3}$, $\frac{6}{5}$

You have an equally likely chance of choosing any integer from 1 through 20. Find the probability of the event. (Review p. 698 for 11.3.)

5. An odd number is chosen.
6. A perfect square is chosen.
7. A multiple of 3 is chosen.
8. A factor of 50 is chosen.



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