Graphical Analysis *In Exercises 9–12, determine whether the approximate shape of the distribution in the histogram is symmetric, uniform, skewed left, skewed right, or none of these. Justify your answer.*

9.

10.

11.

12.
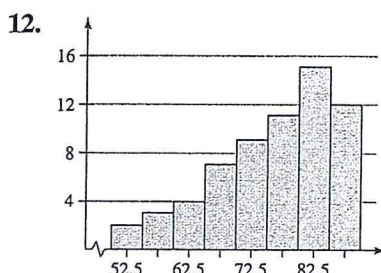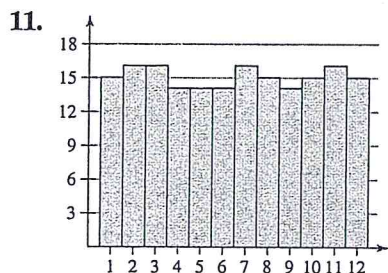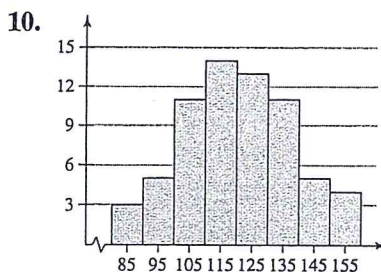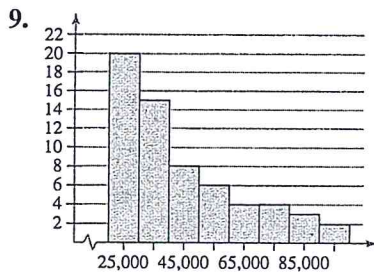
Matching *In Exercises 13–16, match the distribution with one of the graphs in Exercises 9–12.* Justify your decision.

13. The frequency distribution of 180 rolls of a dodecagon (a 12-sided die)

14. The frequency distribution of salaries at a company where a few executives make much higher salaries than the majority of employees

15. The frequency distribution of scores on a 90-point test where a few students scored much lower than the majority of students

16. The frequency distribution of weights for a sample of seventh grade boys

▣ Using and Interpreting Concepts

Finding and Discussing the Mean, Median, and Mode *In Exercises 17–34, find the mean, median, and mode of the data, if possible.* If any of these measures cannot be found or a measure does not represent the center of the data, explain why.

20. Cholesterol The cholesterol levels of a sample of 10 female employees

   154 240 171 188 235 203 184 173 181 275

23. Air Quality The responses of a sample of 1040 people who were asked if the air quality in their community is better or worse than it was 10 years ago

   Better: 346   Worse: 450   Same: 244

31. Weights (in pounds) of Dogs at a Kennel

1	0 2 Key: 1|0 = 10
2	1 4 7
3	7 8
4	1 5 5
5	0 7
6	5
7	
8	
9	
10	6

Finding the Weighted Mean
In Exercises 41–46, find the weighted mean of the data. *Make a table!!*

41. Final Grade The scores and their percents of the final grade for a statistics student are given. What is the student's mean score?

	Score	Percent of final grade
Homework	85	5%
Quizzes	80	35%
Project	100	20%
Speech	90	15%
Final Exam	93	25%

42. Salaries The average starting salaries (by degree attained) for 25 employees at a company are given. What is the mean starting salary for these employees?

8 with MBAs: $45,500
17 with BAs in business: $32,000

43. Account Balance For the month of April, a checking account has a balance of $523 for 24 days, $2415 for 2 days, and $250 for 4 days. What is the account's mean daily balance for April?

44. Account Balance For the month of May, a checking account has a balance of $759 for 15 days, $1985 for 5 days, $1410 for 5 days, and $348 for 6 days. What is the account's mean daily balance for May?

45. Grades A student receives the following grades, with an A worth 4 points, a B worth 3 points, a C worth 2 points, and a D worth 1 point. What is the student's mean grade point score?

B in 2 three-credit classes
A in 1 four-credit class
D in 1 two-credit class
C in 1 three-credit class

46. Scores The mean scores for a statistics course (by major) are given. What is the mean score for the class?

9 engineering majors: 85
5 math majors: 90
13 business majors: 81

Finding the Mean of Grouped Data
In Exercises 47–50, approximate the mean of the grouped data.

49. Ages The ages of residents of a town *Make a table!*

Age	Frequency
0–9	55
10–19	70
20–29	35
30–39	56
40–49	74
50–59	42
60–69	38
70–79	17
80–89	10