
Lesson 12-2

Use the data to make a cumulative frequency table and a histogram.

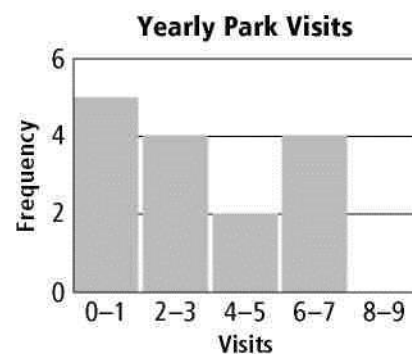
1. average speeds (mi/h): 67 51 52 74 47 62 35 65 40 58 62 70

2. questions answered correctly: 16 19 22 18 21 19 20 19 25 24 20 17 22 23 20 21

3. goals scored: 4 9 2 11 5 12 5 8 7 15 10 6 5 9

The histogram at the right shows the number of times that 13 people visited the local town park.

4. What is the greatest number of times that any person visited the town park?
5. How many people visited the park fewer than 4 times?
6. Which interval represents the greatest number of visitors?



Lesson 12-3

Find the mean, median, and mode of each data set.

7. cost of lunch: \$4.50 \$6.00 \$5.50 \$4.75 \$4.50 \$15.95 \$5.00

8. math test scores: 91 88 91 91 94 91 94 88 91 88 91 82

9. pages of homework: 2 2 2 5 3 9 7 3 5 2

Find the mean, median, mode, and range of each data set after you perform the given operation on each data value.

10. 4, 11, 14, 14, 22; add 3

11. 3, 2, 5, 7, 5, 8, 7, 4, 5, 4; subtract 2

12. 1.1, 2.3, 6.1, 4.5, 1.7, 2.3; multiply by 2

13. 31, 12, 2, 27, 27, 5, 20, 14, 15; divide by 3

14. You are training for a marathon. On the first three days of training, you run for 2, 4, and 5 miles. How many miles should you run on the fourth day so that you run a mean of 4 miles per day?

Lesson 12-4

Find the minimum, first quartile, median, third quartile, and maximum of each data set.

15. 13 7 19 20 14 27 10

16. 56 73 28 94 47 49

17. 49 2 12 73 24 56 13 71 49 38 27

18. 11 5 25 12 9 26 1 19

Make a box-and-whisker plot to represent each set of data.

19. video game prices: \$29 \$29 \$50 \$39 \$45 \$20 \$40

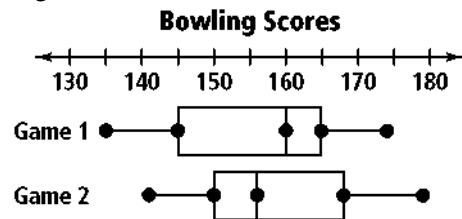
20. apples per bushel: 129 126 113 152 99 144 118 160 104

21. Two games are played during a bowling tournament. The box-and-whisker plots show the scores of the bowlers in each game.

a. Which game has the greater interquartile range of bowling scores?

b. What is the first quartile of game 2?

c. Which game has the greatest median?



Lesson 12-7

The results of rolling a number cube 54 times are shown at right. Use the results to find each experimental probability.

6	3	4	5	1	1	5	5	3	6	3	2	1	3	3	3	2	1
2	3	6	3	3	4	5	1	2	2	6	3	3	6	5	4	5	3
2	5	1	4	5	2	6	2	5	2	1	2	5	3	2	4	6	3

22. $P(3)$

23. $P(\text{not } 1)$

24. Which is greater: the theoretical or experimental probability of rolling an odd number? Explain.

25. You roll a blue number cube and a red number cube. What is the probability of rolling a 5 on the blue cube and a number less than 4 on the red cube?

26. A bag contains 3 green marbles, 5 red marbles, and 1 yellow marble. You pick two marbles from the bag. You pick the second marble without replacing the first.

a. Find P (two greens).

b. Find P (yellow then red).