

Name: _____

Date: _____

A group of students were asked the number of mobile phone charms they own. The number of charms is shown. Use the data to answer questions 5 to 8.

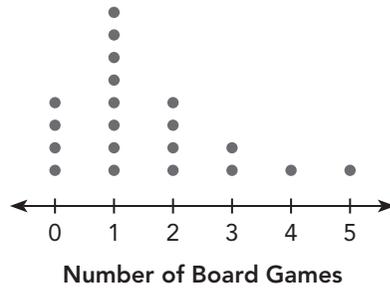
3	2	3	1	1	1	0	1	0
4	0	3	0	2	1	2	1	2
2	0	1	1	1	0	2	0	0

5. Represent the data with a dot plot. Give the dot plot a title.
6. How many observations are there?
7. What conclusions can you draw with regard to the number of charms the students own?
8. What percent of the students own more than 2 charms? Round your answer to the nearest percent.

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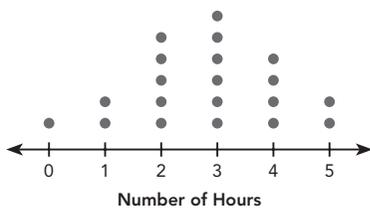
**The dot plot shows the number of board games owned by some children.
Use the dot plot to answer questions 17 to 19.**



17. How many observations are there?
18. What percent of the children have less than 2 board games?
19. A few more children were surveyed and all of them have less than 2 board games. Of all of the children surveyed, $\frac{5}{7}$ of them have less than 2 board games. How many more children were surveyed?

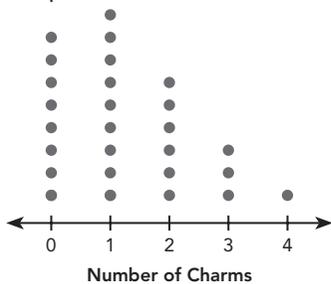
Lesson 13.2

1.



2. Number of observations
 $= 1 + 2 + 5 + 6 + 4 + 2 = 20$
 There are 20 observations.
3. Most students spend 2 to 3 hours reading for pleasure.
4. Percent $= \frac{2}{20} \times 100\% = 10\%$
 10% of the students spend 5 hours reading for pleasure.

5.



6. Number of observations
 $= 8 + 9 + 6 + 3 + 1 = 27$
 There are 27 observations.
7. Most students own 0 or 1 mobile phone charm.
8. Percent $= \frac{3 + 1}{27} \times 100\% \approx 15\%$
 Approximately 15% of the students own more than 2 mobile phone charms.
9. Number of students
 $= 2 + 4 + 6 + 4 + 2 + 2 = 20$
 The number of students surveyed is 20.
10. Most students watched 2 movies.
11. Percent $= \frac{4 + 2 + 2}{20} \times 100\% = 40\%$
 40% of the students watched at least three movies.
12. The dot plot has a "tail" on the right. Most of the data are from 1 to 3, and the distribution is slightly right skewed. The data spans from 0 to 5.
 Range: $5 - 0 = 5$
 From the description of the dot plot, the students saw about 1 to 3 movies, and all of them saw 0 to 5 movies.
13. Number of students
 $= 1 + 2 + 4 + 8 + 5 + 2 + 2 + 1 = 25$
 25 students took the quiz.
14. Percent $= \frac{2 + 2 + 1}{25} \times 100\% = 20\%$
 20% of the students scored at least 8 points.

15. Most students scored 6 points.
16. The dot plot is nearly symmetrical. These data show a nearly symmetrical dot plot centered around 6. Most of the data falls between 5 and 7. The data spans from 3 to 10.
 Range: $10 - 3 = 7$

From the description of the dot plot, most of the students scored between 5 and 7 points.

17. Number of observations
 $= 4 + 8 + 4 + 2 + 1 + 1 = 20$
 There are 20 observations.
18. Percent $= \frac{4 + 8}{20} \times 100\% = 60\%$
 60% of the students have less than 2 board games.
19. Let x be the number of new children who were surveyed.

$$\frac{5}{7}(20 + x) = 12 + x$$

$$\frac{5}{7}(20) + \frac{5}{7}x = 12 + x$$

$$14\frac{2}{7} + \frac{5}{7}x = 12 + x$$

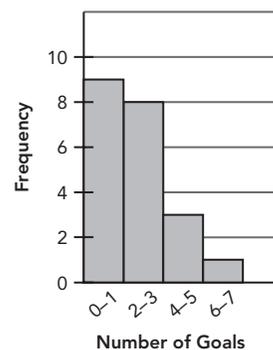
$$-\frac{2}{7}x = -2\frac{2}{7}$$

$$x = 8$$

8 more children were surveyed.

Lesson 13.3

1. Number of Goals Scored in One Season



2. Number of Spoons in a Kitchen

