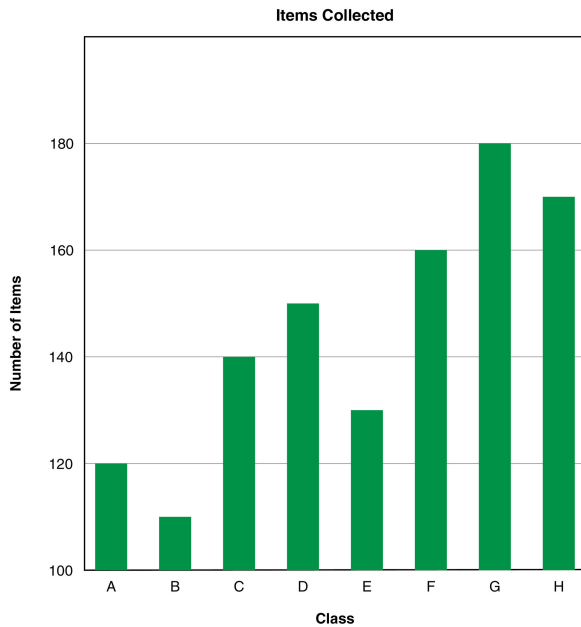


PRACTICE QUIZ 2

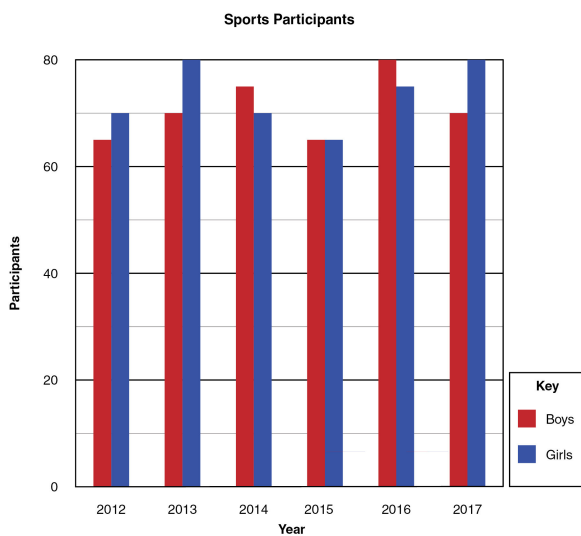
1. The bar chart shows the number of items collected for a charity drive. What is the total number of items collected for the three highest classes?



- A. 500
- B. 510
- C. 520
- D. 530
2. Find the range for the data set 34, 45, 27, 29, 36, 60, 52, 48, 41, 65, 44, 50, 64, 58, 47, and 31.
- A. 3
- B. 5
- C. 36
- D. 38
3. A spinner is labeled 1-10. What is the probability of landing on a multiple of 3?

- A. $\frac{1}{10}$
- B. $\frac{1}{5}$
- C. $\frac{3}{10}$
- D. $\frac{2}{5}$

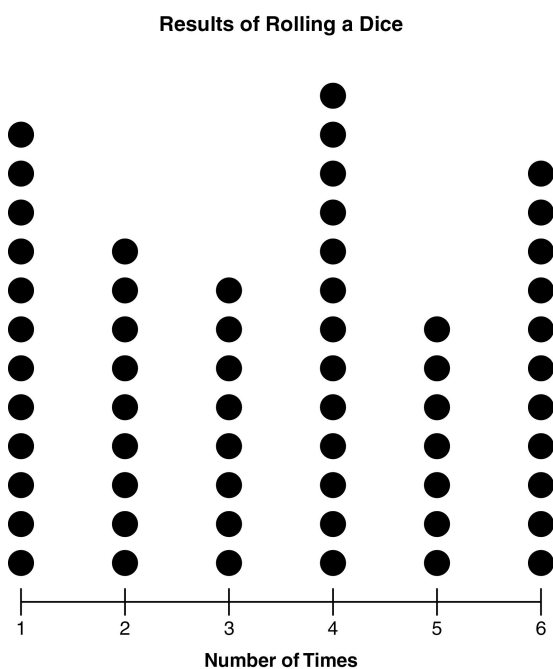
4. The bar chart shows the number of boys and girls who participate in sports. What year had the most participants?



- A. 2013
 - B. 2014
 - C. 2016
 - D. 2017
5. If a letter is chosen at random from the word SUBSTITUTE, what is the probability that the letter chosen is “S” or “T” ?

- A. $\frac{1}{5}$
- B. $\frac{3}{10}$
- C. $\frac{2}{5}$
- D. $\frac{1}{2}$

6. There is a group of 100 people, 68 of whom like hot drinks and 72 of whom like cold drinks. How many people like cold and hot drinks?
- A. 4
- B. 40
- C. 100
- D. 140
7. The dot plot shows the results of rolling a dice for a game. Which statement is true for the dot plot?



- A. There were 60 turns in the game.
- B. More than half of the turns were 3 or less.
- C. 1 and 6 occurred the same number of times.
- D. The difference between the lowest and highest frequency is 3.
10. Convert 14 centimeters to inches.
- A. 5.51 inches
- B. 11.46 inches
- C. 16.54 inches

D. 35.56 inches

11. Convert 2 feet to centimeters.

A. 30.49 centimeters

B. 40.98 centimeters

C. 50.49 centimeters

D. 60.98 centimeters

12. Convert 750 milliliters to quarts.

A. 0.0795 quarts

B. 0.795 quarts

C. 7.95 quarts

D. 79.5 quarts

8. The temperatures of two cities are shown for the first 10 days in February in degrees Fahrenheit.

City 1: 11, 12, 14, 15, 15, 16, 16, 17, 19, 20

City 2: 15, 15, 16, 17, 18, 18, 19, 20, 21, 21

Which statement describes the mean and standard deviation?

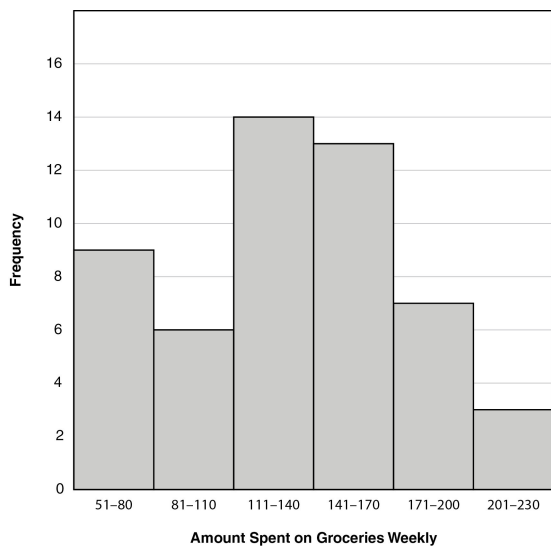
A. City 1 had the greater mean, but City 2 had a higher standard deviation.

B. City 2 had the greater mean, but City 1 had a higher standard deviation.

C. City 1 had the greater mean, and City 1 had a higher standard deviation.

D. City 2 had the greater mean, and City 2 had a higher standard deviation.

9. The histogram below shows the amount a family spent on groceries during the year. Which statement is true for the histogram?



- A. The lowest frequency is between \$80 and \$110.
- B. The highest frequency is between \$140 and \$170.
- C. More than half of the amount spent is greater than \$140.
- D. More than half of the amount spent is between \$110 and \$170.

PRACTICE QUIZ 2 – ANSWER KEY

1. B. The correct solution is 510 items because the three largest classes collected 180, 170, and 160 items. See Lesson: Interpreting Graphics.
2. D. The correct solution is 38. The difference between the highest value of 65 and the lowest value of 27 is 38. See Lesson: Interpreting Graphics.
3. C. The correct solution is $\frac{3}{10}$. There are three options, 3, 6, and 9, out of 10, making the probability $\frac{3}{10}$. See Lesson: Statistics & Probability: The Rules of Probability.
4. C. The correct solution is 2016 because there were 155 total participants. See Lesson: Interpreting Graphics.
5. D. The correct solution is $\frac{1}{2}$. There are 3 S' s and 2 T' s in the word SUBTITUTE out of 10 letters. The probability is $\frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$. See Lesson: Statistics & Probability: The Rules of Probability.
6. B. The correct solution is 40 because the sum of the drinks is 140 and less the people in the group is 40. See Lesson: Statistics & Probability: The Rules of Probability.
7. A. The correct solution is there were 60 turns in the game. The sum of the results is $12 + 9 + 8 + 13 + 7 + 11$, which is 60 turns. See Lesson: Interpreting Categorical and Quantitative Data.
8. B. The correct solution is City 2 had the greater mean, but City 1 had a higher standard deviation. City 2 has the higher mean because the mean is 18 for City 2 and 15.5 for City 1. The standard deviation is greater for City 1 because the standard deviation is 2.655 for City 1 and 2.145 for City 2. See Lesson: Interpreting Categorical and Quantitative Data.

9. D. The correct solution is more than half of the amount spent is between \$110 and \$170. There are 14 weeks where the amount spent is between \$110 and \$140 and 13 weeks where the amount spent is between \$140 and \$170. This is 27 weeks, which is more than half the data set. See Lesson: Interpreting Categorical and Quantitative Data.

10. A. The correct solution is 5.51 inches. $14 \text{ cm} \times \frac{1 \text{ in}}{2.54 \text{ cm}} = \frac{14}{2.54} = 5.51 \text{ in.}$ See Lesson: Conversions.

11. D. The correct solution is 60.98 centimeters. $2 \text{ ft} \times \frac{1 \text{ m}}{3.28 \text{ ft}} \times \frac{100 \text{ cm}}{1 \text{ m}} = 200/3.28 = 60.98 \text{ cm.}$ See Lesson: Conversions.

12. B. The correct solution is 0.795 quarts. $750 \text{ mL} \times \frac{1 \text{ L}}{1,000 \text{ mL}} \times \frac{1.06 \text{ qt}}{1 \text{ L}} = \frac{795}{1000} = 0.795 \text{ qt.}$ See Lesson: Conversions.

PSAT Resource Links

PSAT Online Practice Tests: <https://www.crackpsat.net/psat/>

❖ PSAT Reading Practice Tests:

<https://www.crackpsat.net/psat/reading/>

❖ PSAT Writing and Language Tests:

<https://www.crackpsat.net/psat/writing-language/>

❖ PSAT Math Practice Tests:

<https://www.crackpsat.net/psat/math/>

PSAT Real Past Papers Download:

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New SAT Practice Tests:

<https://www.cracksat.net>

ACT Practice Tests:

<https://www.crackacc.com>

AP Exams Practice Tests:

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