

**Summer
Review****Entering Pre-Algebra-7****Order the integers from least to greatest.**

17. 9, -3, 6, -2, -5

18. -8, -2, 4, 2, -1

19. A twelve-pack of juice costs \$3.90. An eighteen-pack costs \$5.49. Which is the better buy?

Write the fraction or mixed number as a percent.

20. $\frac{5}{8}$

21. $\frac{21}{5}$

22. $2\frac{3}{25}$

23. Chris, Mary Beth, and Allison are discussing the number of votes received by a candidate running for office. Chris says that approximately 46.2% of the votes went to the candidate, Mary Beth says that 231 out of every 500 votes went to the candidate, and Allison says that 0.462 of the votes went to the candidate. Are they in agreement? Explain your reasoning.

24. How many vertices does a rectangular pyramid have?

25. A pizza shop offers 30% off the price of a large pizza every Tuesday night. If the regular price is \$25.50, what is the discounted price?

26. Write the ratio of baseballs to soccer balls. Explain what the ratio means.



27. You run 5 miles in 1 hour. At this rate, how long will it take you to run a marathon (approximately 26 miles)?

28. Determine the mean, median, mode(s), IQR, and range for the data.

12, 12, 10, 8, 9, 9, 9, 11, 11, 8

29. Katie makes 65% of her shots from the free-throw line. Can you determine how many consecutive free-throws she must make in order to increase her percentage to 68%? Explain.

Answers

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

Summer Review

Entering Pre-Algebra-7

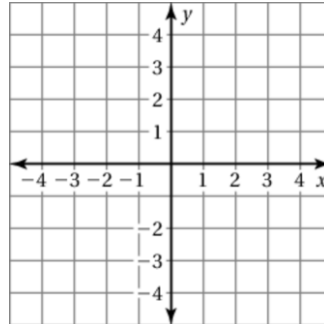
Plot the ordered pair in the coordinate plane.

30. $(1, -3)$

31. $(-2, 4)$

32. $(0, -2)$

33. $(-4, -3)$



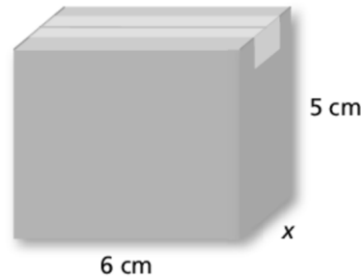
Solve the equation.

34. $\frac{3}{4}s = 12$

35. $2.5c = 20$

36. A farmer builds a fence to enclose a rectangular pasture. He uses 155 feet of fence. Find the total area of the pasture if it is 45.5 feet long.

37. Write and solve an equation to find the width of the box if its volume is 80 cubic centimeters. Then find its surface area.



38. The prices of backpacks at a store are \$26, \$22, \$31, \$18, \$24, \$22, \$19, and \$30. Find the mean absolute deviation of the prices.

Write the word sentence as an inequality.

39. A number w is less than 5.5.

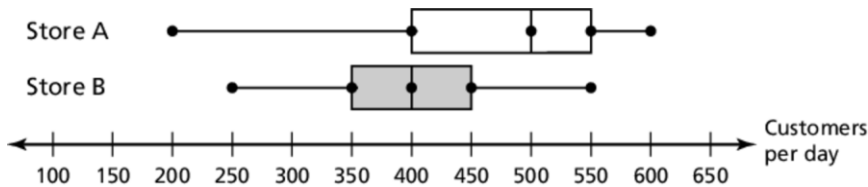
40. A number m is at least 7.

Determine whether the question is a statistical question. Explain.

41. How much does a 10-fluid ounce bottle of perfume cost?

42. Who was the President of the United States in 2010?

Use the box-and-whisker plot to answer the question.



43. How often does Store A have 550 or more customers per day?

44. Identify the shape of each distribution.

45. Which store has more customers?

Answers

30. See left.

31. See left.

32. See left.

33. See left.

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____

41. _____

42. _____

43. _____

44. _____

45. _____

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55. $-|-1|, 0, |-2|, -5, -4$

56. $\frac{17}{2}, -6.7, -\frac{28}{5}, 8.2$

Simplify the expression.

57. $2 - (-5)$

58. $-6 + 11$

59. $-2.5(6)$

60. $45 \div (-3)$

61. $-\frac{2}{5} + \frac{7}{10}$

62. $0.38 - 1.4$

63. $2\frac{1}{8} \cdot \left(-\frac{6}{5}\right)$

64. $-12.88 \div 2.8$

65. On an exam you get two points for each question answered correctly, zero points for each question left blank, and lose one-half point for each question answered incorrectly. What is your total score on the exam if you answer 13 questions correctly, leave 7 questions blank, and answer 5 questions incorrectly?

Solve.

66. $x + 3\frac{2}{5} = 2\frac{1}{6}$

67. $-0.25a + 3.8 = 4.6$

68. A pencil costs \$0.27 and a pen costs \$0.32. You buy six pencils and the total cost is \$4.18. How many pens did you buy?

69. A farmer builds a fence to enclose a rectangular pasture. He uses 155 feet of fence. Find the total area of the pasture if it is 45.5 feet long.

70. The table shows the time in minutes m to download s songs. How long does it take to download one song?

Minutes	0.5	1.5	2.5
Songs	2	6	10

Answers

55. _____

56. _____

57. _____

58. _____

59. _____

60. _____

61. _____

62. _____

63. _____

64. _____

65. _____

66. _____

67. _____

68. _____

69. _____

70. _____