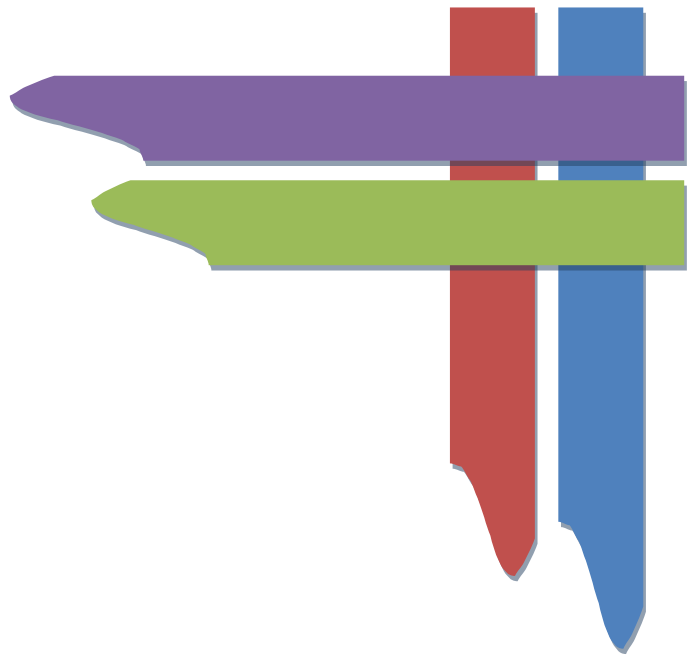
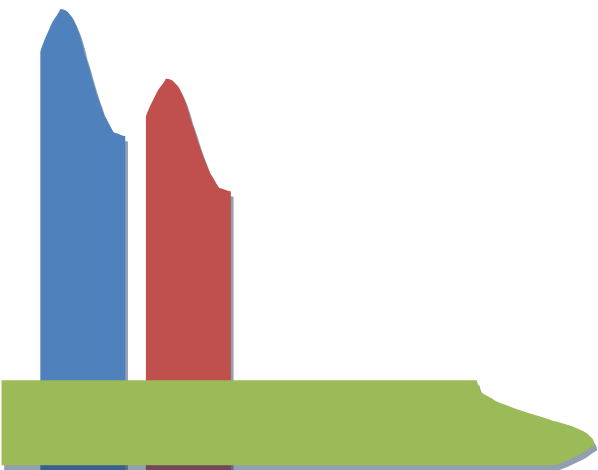


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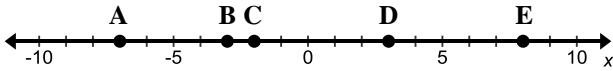
Period _____



CRT Review PACKET #1



1. Use the given number line and identify the point that represents the value -3 .



- A. A C. C
B. B D. D
2. Which choice has the integers $-3, 0, -2, 6$ ordered from least to greatest?

- A. $6, 0, -2, -3$
B. $-2, -3, 0, 6$
C. $6, 0, -3, -2$
D. $-3, -2, 0, 6$

3. Simplify $|-7|$

- A. 0 C. 7
B. -7 D. No Answer

4. Simplify $-9+6$

- A. 15 C. 3
B. -15 D. -3

5. Simplify $-9+-6$

- A. -15 C. -3
B. 15 D. 3

6. Simplify $5+8$

- A. 13 C. -3
B. 3 D. -13

7. Simplify $-9-(-6)$

- A. 3 C. 15
B. -3 D. -15

8. Simplify $-9-6$

- A. -3 C. -15
B. 3 D. 15

9. Simplify $6-9$

- A. 3 C. 15
B. -3 D. -15

10. Simplify $8-5$

- A. -3 C. 3
B. 13 D. -13

11. Would the following **sum** be positive, negative, or zero?

$$-28 + 66$$

- A. positive
- B. negative
- C. zero

12. Would the following **sum** be positive, negative, or zero?

$$-27 + 27$$

- A. positive
- B. negative
- C. zero

13. Would the following **difference** be positive, negative, or zero?

$$-15 - 13$$

- A. positive
- B. negative
- C. zero

14. Simplify $-3 \cdot 4$

- A. 7
- B. -7
- C. 12
- D. -12

15. Simplify $(-8)(-7)$

- A. 56
- B. -56
- C. 15
- D. -15

16. Simplify $\frac{-18}{6}$

- A. 3
- B. -3
- C. 12
- D. -12

17. Simplify $14 \div -2$

- A. -12
- B. 12
- C. -7
- D. 7

18. Simplify $24 \div -8$

- A. -3
- B. 3
- C. -32
- D. 32

19. Complete the statement by inserting the appropriate inequality sign.

$$-18 \quad \underline{\quad} \quad -17$$

- A. <
- B. =
- C. >

20. Complete the statement by inserting the appropriate inequality sign.

$$-|-29| \quad \underline{\hspace{1cm}} \quad |-29|$$

- A. <
- B. =
- C. >

21. Simplify $10(5y+3)$

- A. $50y+3$
- B. $15y+13$
- C. $50y+30$
- D. $50y+13$

22. Simplify $-4(2x+1)$

- A. $-8x-4$
- B. $-8x-3$
- C. $-8x-5$
- D. $-8x+1$

23. Simplify $5w+3+w$

- A. $9w$
- B. $6w+3$
- C. $5w+3$
- D. $8w$

24. Simplify $12y-4-2y$

- A. $14y-4$
- B. $14y$
- C. $6y$
- D. $10y-4$

25. Simplify $4+20\div 5\cdot 2$

- A. 12
- B. 16
- C. 6
- D. 32

26. Simplify $6-[3+(2\cdot 3)]$

- A. -3
- B. 3
- C. -2
- D. 15

27. Evaluate $c+|4-c|$
for $c=17$

- A. 30
- B. 48
- C. 4
- D. 20

28. Evaluate $\frac{w}{b-y}$
for $b=14, w=20, y=9$

- A. 15
- B. 100
- C. 5
- D. 4

29. Which property is being displayed?
 $-14\cdot 8=8\cdot -14$

- A. Associative Property
- B. Commutative Property
- C. Identity Property of Addition
- D. Identity Property of Multiplication

30. Which property is being displayed?
 $5 + (3 + 11) = (5 + 3) + 11$
- A. Associative Property
 - B. Commutative Property
 - C. Identity Property of Addition
 - D. Identity Property of Multiplication

31. Identify the place value of the underlined digit: $43.\underline{9}5$
- A. hundredths
 - B. tenths
 - C. ones
 - D. tens

32. Round to the nearest hundredth: $23.\underline{6}95$
- A. 23.69
 - B. 24
 - C. 23.60
 - D. 23.70

33. Which fraction shows $\frac{60}{70}$ in lowest terms?
- A. $\frac{60}{7}$
 - B. $\frac{6}{7}$
 - C. $\frac{6}{70}$
 - D. $\frac{12}{14}$

34. Which fraction shows $\frac{14}{35}$ in lowest terms?

- A. $\frac{7}{18}$
- B. $\frac{2}{5}$
- C. $\frac{1}{2}$
- D. $\frac{2}{3}$

35. Convert the fraction to a decimal, rounding to the nearest hundredth when necessary.

$$\frac{3}{4}$$

- A. 3.4
- B. 0.75
- C. 0.34
- D. 12.0

36. Change to a percent: $\frac{15}{4}$

- A. 375%
- B. 3.75%
- C. 37.5%
- D. 0.0375%

37. Change to a percent: 0.562

- A. 562%
- B. 0.0562%
- C. 56.2%
- D. 5.62%

38. Convert **0.12** to a simplified fraction

- A. $\frac{12}{100}$ C. $\frac{3}{25}$
B. $\frac{6}{50}$ D. $\frac{6}{5}$

39. Convert the fraction to a decimal, rounding to the nearest hundredth when necessary.

$$\frac{2}{3}$$

- A. **6.0** C. **2.3**
B. **0.23** D. **0.67**

40. Convert the percent to a decimal: **57%**

- A. **5.7** C. **0.57**
B. **57.0** D. **0.057**

41. Convert the percent to a simplified fraction:
127%

- A. $\frac{127}{1000}$ C. $\frac{63}{50}$
B. $\frac{100}{127}$ D. $\frac{127}{100}$

42. Convert the fraction to a percent, rounding to the nearest hundredth when necessary.

$$\frac{2}{5}$$

- A. **25%** C. **0.4**
B. **40%** D. **250%**

43. Change to a percent: **1.25**

- A. **125%** C. **0.0125%**
B. **12500%** D. **1.25%**

44. Compare: **6.11** \square **6.01**

- A. **<** B. **>** C. **=**

45. Compare: $\frac{5}{8}$ \square $\frac{11}{13}$

- A. **<** B. **>** C. **=**

46. Change to a decimal: **17.5%**

- A. **17.5** C. **1.75**
B. **0.175** D. **175**

47. Order from greatest to least:
5.71, 5.68, 5.79, 5.6

- A. **5.6, 5.68, 5.71, 5.79**
B. **5.68, 5.6, 5.71, 5.79**
C. **5.79, 5.71, 5.68, 5.6**
D. **5.79, 5.71, 5.6, 5.68**

48. Order from greatest to least:

$$\frac{3}{8}, \frac{7}{8}, \frac{1}{2}, \frac{1}{4}$$

A. $\frac{7}{8}, \frac{3}{8}, \frac{1}{4}, \frac{1}{2}$

B. $\frac{7}{8}, \frac{1}{2}, \frac{3}{8}, \frac{1}{4}$

C. $\frac{1}{2}, \frac{1}{4}, \frac{3}{8}, \frac{7}{8}$

D. $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{7}{8}$

49. Order from least to greatest:

$$\frac{1}{2}, 75\%, 0.115, \frac{1}{4}$$

A. $75\%, \frac{1}{2}, \frac{1}{4}, 0.115$

B. $\frac{1}{2}, \frac{1}{4}, 0.115, 75\%$

C. $\frac{1}{4}, 0.115, 75\%, \frac{1}{2}$

D. $0.115, \frac{1}{4}, \frac{1}{2}, 75\%$

50. Order from least to greatest:

$$1.25, \frac{1}{8}, 0.27, 25\%$$

A. $\frac{1}{8}, 25\%, 0.27, 1.25$

B. $\frac{1}{8}, 0.27, 1.25, 25\%$

C. $1.25, 0.27, 25\%, \frac{1}{8}$

D. $0.27, \frac{1}{8}, 1.25, 25\%$

51. Simplify $5(x+4)$

A. $20x$

C. $5x+9$

B. $5x+4$

D. $5x+20$

52. Solve the following.

$$-20 + x = 5$$

A. -25

C. 25

B. -15

D. -100

53. Simplify $|-9|$

A. -9

C. 0

B. 9

D. -18

54. $3\frac{1}{3} + \frac{8}{9}$

A. $3\frac{9}{12}$ C. $\frac{38}{9}$

B. $\frac{19}{6}$ D. $\frac{3}{4}$

55. Round to the nearest hundred: **3,621.573**

A. **3,600** C. **36**

B. **3,700** D. **3,621.57**

56. Solve $\frac{x}{6} + 10 = 25$

A. **15** C. **5.8**

B. **210** D. **90**

57. Which property is being displayed?

$$5 + (8 + 10) = (5 + 8) + 10$$

A. **Associative Property**

B. **Commutative Property**

C. **Identity Property of Addition**

D. **Identity Property of Multiplication**

58. $\frac{4}{3} \cdot \frac{6}{7}$

A. $\frac{8}{7}$ C. **24**

B. **1** D. $\frac{12}{5}$

59. Solve the following.

$$-3x = 36$$

A. **-33** C. **39**

B. **33** D. **-12**

60. Solve $-2x + 1 + 7x = 11$

A. **-2** C. **2**

B. **-1.1** D. **1.1**

61. Order from least to greatest:

$$\frac{1}{2}, 75\%, 0.115, \frac{1}{4}$$

A. **75%, $\frac{1}{2}, \frac{1}{4}, 0.115$**

B. **$\frac{1}{2}, \frac{1}{4}, 0.115, 75\%$**

C. **$\frac{1}{4}, 0.115, 75\%, \frac{1}{2}$**

D. **0.115, $\frac{1}{4}, \frac{1}{2}, 75\%$**

62. Solve the following:

$$x + 4 \geq 9$$

A. $x \geq 5$ C. $x \leq 5$

B. $x \geq 13$ D. $x \leq 13$

63. Simplify $-11+6$

- A. -17 C. 5
B. -5 D. 17

64. Solve $2x - 18 < 4$

- A. $x > 11$ C. $x < 11$
B. $x > -7$ D. $x < -7$

65. $\frac{1}{5} \div \frac{3}{7}$

- A. $\frac{7}{15}$ C. $\frac{35}{3}$
B. $\frac{3}{35}$ D. $\frac{15}{7}$

66. Evaluate $3m + p$ if $m = 4$ and $p = 3$

- A. 10 C. 15
B. 13 D. 36

67. $\frac{3}{5} + \frac{1}{5}$

- A. $\frac{2}{5}$ C. $\frac{4}{10}$
B. $\frac{4}{5}$ D. $\frac{3}{5}$

68. Simplify $9h + 3 - 4h$

- A. $5h + 3$ C. $13h - 3$
B. $13h + 3$ D. $5h - 3$

69. Order the following from least to greatest.

$\frac{5}{6}, 0.0998, \frac{4}{5}, 0.795$

- A. $0.0998, \frac{4}{5}, 0.795, \frac{5}{6}$
B. $0.0998, 0.795, \frac{4}{5}, \frac{5}{6}$
C. $\frac{5}{6}, \frac{4}{5}, 0.795, 0.0998$
D. $\frac{5}{6}, 0.798, \frac{4}{5}, 0.0998$

70. Solve the following.

$$x + 5.6 = 0.2$$

- A. -5.4 C. -3.6
B. 5.4 D. 5.8

71. Simplify $-7 - 5$

- A. 12 C. 2
B. -2 D. -12

72. $\frac{7}{4} - \frac{1}{4}$

- A. $\frac{5}{4}$ C. $\frac{3}{2}$
B. 2 D. $-\frac{6}{4}$

73. Solve $2x - 2 = -6$

- A. 4 C. -4
B. 2 D. -2

74. Simplify $4 + 2(13 - 6)$

- A. 42 C. 16
B. 56 D. 18

75. Solve $-7x + 3x - 8 = 24$

- A. 8 C. -8
B. 3.2 D. -3.2

76. Convert $\frac{4}{5}$ to a decimal.

- A. 0.8 C. 0.4
B. 0.45 D. 0.08

77. Solve the following.

$-x = 311$

- A. -310 C. -312
B. -311 D. 311

78. Solve $\frac{x}{8} - 3 \geq -1$

- A. $x \geq -32$ C. $x \leq -32$
B. $x \geq 16$ D. $x \leq 16$

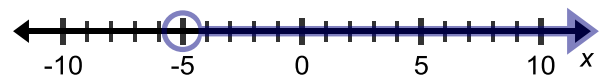
79. $\frac{3}{8} - \frac{1}{6}$

- A. 1 C. $\frac{1}{2}$
B. $\frac{1}{12}$ D. $\frac{5}{24}$

80. Solve $\frac{x}{3} - 3 = 7$

- A. 12 C. 30
B. 3.3 D. 1.3

81. What is the correct inequality for the given graph?



- A. $x > -5$ C. $x \geq -5$
B. $x < -5$ D. $x \leq -5$

82. Evaluate $\frac{xy}{z}$ if $x = 4$, $y = 6$ and $z = 3$

- A. 72 C. 8
B. 3.3 D. 15.3

83. Simplify $(-4)(6)$

- A. 2 C. 24
B. -24 D. 10

84. Solve the following:
 $x - 6 = 15$

- A. 9 C. 21
B. -21 D. -9

85. Simplify $\frac{1+8(-2)}{6-6\div 2}$

- A. -5 C. -6
B. $-\frac{17}{3}$ D. $-\frac{16}{3}$

86. Convert $3\frac{2}{4}$ to an improper fraction.

- A. $\frac{12}{4}$ C. $\frac{10}{4}$
B. 12 D. $\frac{14}{4}$

87. Change to a percent: $\frac{15}{4}$

- A. 15.4% C. 3.75%
B. 375% D. 26.7%

88. Solve the following:

$$100 = \frac{x}{2}$$

- A. 50 C. 102
B. 200 D. 98

89. Solve $5(x - 7) = 90$

- A. 16.6 C. 25
B. 11 D. 19.4

90. $\frac{5}{9} \cdot \frac{-2}{3}$

- A. $-\frac{10}{27}$ C. $-\frac{10}{3}$
B. $\frac{1}{4}$ D. $-\frac{5}{6}$

91. Solve $\frac{x}{-7} + 5 < 4$

- A. $x > -7$ C. $x < -7$
B. $x > 7$ D. $x < 7$

92. Simplify $\frac{15}{-5}$

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

93. Convert 45% to a simplified fraction.

- A. $\frac{45}{1000}$ C. $\frac{9}{20}$
B. 4.5 D. $\frac{9}{100}$

94. $4 \div \frac{5}{11}$

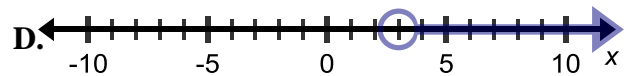
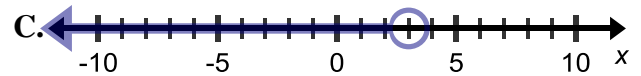
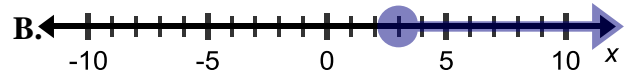
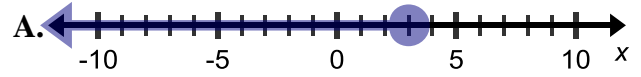
- A. $\frac{11}{20}$ C. $\frac{20}{11}$
B. $\frac{44}{5}$ D. $\frac{5}{44}$

95. Evaluate.

$$-3 + |-6 + 2| - 7$$

- A. 6 C. -6
B. -14 D. 14

96. Which of the following graphs correctly shows $3 \leq x$?



97. Solve $-4x - 5 = -21$

- A. -6.5 C. 6.5
B. -4 D. 4

98. Is 763 divisible by 3?

- A. Yes, because the number ends in a 3.
B. No, because $7 + 6 + 3 = 16$
C. Yes, because $6 + 3 = 9$
D. No, because 3 doesn't go into 7 evenly.

99. Solve the following:

$$\frac{3}{4} = x + \frac{1}{4}$$

- A. $\frac{2}{8}$ C. $\frac{3}{8}$
B. $\frac{1}{2}$ D. $\frac{4}{4}$

100. Which fraction shows $\frac{9}{18}$ in lowest terms?

- A. $\frac{1}{9}$ C. 9
B. 2 D. $\frac{1}{2}$

101. You flip a coin multiple times. What is the probability of the following:

P(tails, tails, tails)

- A. $\frac{1}{6}$ C. $\frac{1}{8}$
B. $\frac{1}{2}$ D. $\frac{3}{8}$

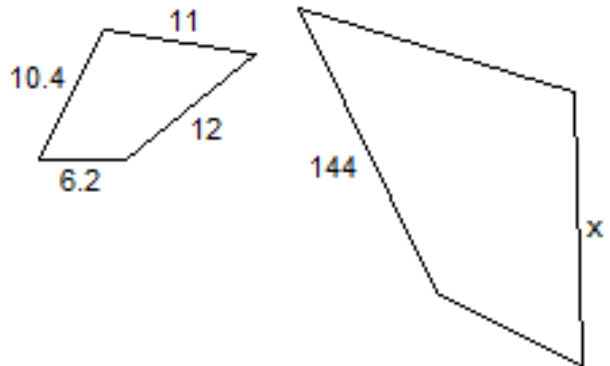
102. Jason's quiz scores were **18, 16, 24, 17, 21, 26, and 24**. What was his **mean** score? (Round your answer to the nearest **tenth** if necessary.)

- A. 10 C. 20.9
B. 21 D. 24

103. If your restaurant bill is \$36.00 and you want to tip 15%, what would be the amount of the tip?

- A. \$2.40 C. \$1.50
B. \$5.40 D. \$41.40

104. Find the missing side.



- A. 81.2 C. 278.7
B. 124.8 D. 166.2

105. You are making cookies that call for $\frac{2}{3}$ cup of shortening. You want to triple the batch of cookies. How much shortening will you need to make the three batches of cookies?

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

106. Jenny did a survey and found that 3 out of 5 people had green eyes. This is an example of what type of probability?

- A. Theoretical C. Experimental
B. Complement D. Neither

107. What is the 1st quartile and 3rd quartile found from the data:

10, 8, 9, 16 19, 15, 20, 16, 21, 22, 19

- A. 10, 20 C. 12.5, 18.5
B. 9, 21 D. 12.5, 19.5

108. The ratio of boys to girls in Nathan's English class is 3:4. If there are 16 girls in the class, how many boys are there?

- A. 9 C. 24
B. 20 D. 12

109. Mark gets 300 votes in an election and learns that this is 40% of the total vote. How many votes were cast?

- A. 120 C. 340
B. 13 D. 750

110. Find the **UNIT RATE** for the given situation. If necessary, round to the nearest hundredth.

For each student, Alpine School district spends about \$5000 for 180 school days.

- A. $\frac{25 \text{ dollars}}{9 \text{ days}}$
B. 27.78 dollars per day
C. $\frac{5000 \text{ dollars}}{180 \text{ days}}$
D. 27.78 days per dollar

111. Solve $5(x - 7) = 90$

- A. 16.6 C. 25
B. 11 D. 19.4

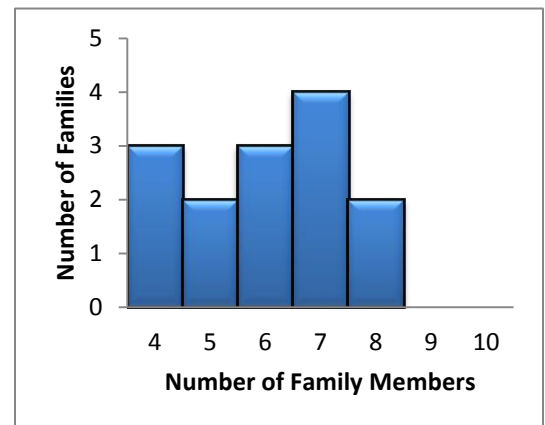
112. The scale of a map is 3 inches : 100 miles. Two cities are 9.5 inches apart on the map. Find the actual distance between the cities.

- A. 316.7 mi C. 31.6 mi
B. 950 mi D. 0.285 mi

113. Frankie is buying a new Lego set. The Lego set costs \$25, but Frankie has a 20% off coupon. How much will Frankie pay for the Lego set?

- A. \$20.00 C. \$30.00
B. \$5.00 D. \$24.20

114. In the histogram below, how many students had less than 7 people in their family?



- A. 8 C. 3
B. 5 D. 14

115. Solve $240 \div (-20) \cdot 4$

- A. -3 C. -24
B. -16 D. -48

116. Which answer shows three possible solutions for the given inequality?

$$x > -5$$

- A. $-6, -7, -8$ C. $-5, -4, -3$
B. $-5, -6, -7$ D. $-4, -3, -2$

117. You are buying a TV that is usually \$1,200. It is on sale for \$1,000. Find the percent of change.

- A. **600%** C. **16.7%**
B. **120%** D. **20%**

118. Solve $\frac{m}{7.8} = \frac{13}{6}$

- A. **16.9** C. **0.06**
B. **3.6** D. **14.8**

119. Solve the following.

$$x + \frac{2}{3} = 1$$

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

120. You are choosing Skittles from a bag. There are 7 red, 6 orange, 4 yellow, 2 green and 3 purple. If you choose a Skittle then **do replace** the first Skittle before choosing another, find the probability of the following:

P(purple, yellow)

- A. $\frac{7}{484}$ C. $\frac{3}{121}$
B. $\frac{3}{22}$ D. $\frac{2}{11}$

121. You are choosing Skittles from a bag. There are 7 red, 6 orange, 4 yellow, 2 green and 3 purple. If you choose a Skittle, **eat the first Skittle** and then choose a second, find the probability of the following:

P(green, red)

- A. $\frac{1}{33}$ C. $\frac{7}{242}$
B. $\frac{9}{22}$ D. $\frac{9}{242}$

122. Solve the following inequality:
 $-2x > 18$

- A. $x < -9$ C. $x > 20$
B. $x > -9$ D. $x < 20$

123. The points you scored in the last seven basketball games are listed below. Which statement about the data is false?

11, 15, 6, 10, 7, 22, 6

- A. The range is 11
B. The median is 10
C. The mode is 6
D. The mean is 11
124. Rolling a 6 sided die, answer the following as a simplified fraction:

P(complement of 3)

- A. $\frac{1}{3}$ C. $\frac{1}{4}$
B. $\frac{1}{2}$ D. $\frac{5}{6}$

125. 18 qt = ____ gal

- A. 9 gal C. 36 gal
B. 72 gal D. 4.5 gal

126. Evaluate $2 \cdot 6 + 4(9 - 2)$

- A. 40 C. 36
B. 18 D. 112

127. What is the minimum, median, and maximum found from the data:

10, 8, 9, 16 19, 15, 20, 16, 21, 22, 19

- A. 10, 15, 19 C. 8, 18, 22
B. 8, 16, 22 D. 10, 17.5, 19

128. Solve $12x - 3 \geq 21$

- A. $x \leq 2$ C. $x \geq 2$
B. $x \leq 1.5$ D. $x \geq 1.5$

129. 7.5 is 15% of what?

- A. 50 C. 200
B. 1.13 D. 0.5

130. Utah license plates have 3 numbers followed by 3 letters. How many different license plates of this type are possible?

- A. 17,576,000 combinations
B. 9 combinations
C. 2340 combinations
D. 11,232,000 combinations