

summer packet for incoming 8th grade 2023

Name: _____

Date: _____

1. Which choice has a total of 4,520?

- A. 45 hundreds and 52 tens
- B. 45 hundreds and 20 tens
- C. 40 hundreds and 62 tens
- D. 38 hundreds and 72 tens

2. Which is another way to write 135?

3. Which of these shows $\frac{24}{48}$ expressed in lowest terms?

- A. $\frac{1}{3}$
- B. $\frac{1}{2}$
- C. $\frac{6}{12}$
- D. $\frac{12}{24}$

4. Which fraction is equivalent to $\frac{3}{4}$?

- A. $\frac{1}{4}$
- B. $\frac{6}{8}$
- C. $\frac{5}{6}$
- D. $\frac{7}{8}$

5. During an event on Saturday, 29,089 seats in a sports arena were occupied. The arena has a total of 39,598 seats.

Which of the following estimates is closest to the fraction of seats that were occupied during the event on Saturday?

6. James is bowling. He knocked down 4 out of 10 bowling pins.

What fraction of the bowling pins were *not* knocked down?

7. Four children share six brownies so that each child receives a fair share. How many brownies will each child receive?

8. Ten team members are sharing 3 boxes of cookies. How much of a box will each student get?

9. Which of the following lists of fractions is displayed in order, from greatest to smallest?

A. $\frac{5}{3}, \frac{5}{8}, \frac{1}{3}, \frac{1}{4}$ B. $\frac{7}{16}, \frac{3}{4}, \frac{5}{8}, \frac{2}{3}$

C. $\frac{4}{6}, \frac{2}{4}, \frac{2}{5}, \frac{1}{2}$ D. $\frac{8}{5}, \frac{7}{4}, \frac{6}{3}, \frac{5}{2}$

10. On the number line, $\frac{3}{4}$ lies between which of the following fractions?

A. $\frac{5}{8}$ and $\frac{13}{16}$ B. $\frac{12}{16}$ and $\frac{13}{16}$

C. $\frac{7}{8}$ and $\frac{12}{16}$ D. $\frac{7}{8}$ and $\frac{15}{16}$

11. $\frac{2}{3} + \frac{1}{5} =$

12. Which fraction is equivalent to $\frac{5}{6} + \frac{7}{8}$?

A. $\frac{35}{48}$ B. $\frac{6}{7}$ C. $\frac{20}{21}$ D. $\frac{41}{24}$

13. On Monday, Jake ran $\frac{5}{10}$ of a mile. On Tuesday, he ran another $\frac{3}{10}$ of a mile. How far did Jake run on Monday and Tuesday combined?

14. What is $\frac{3}{4} - \frac{1}{6}$?

15. Which of the following is equivalent to the expression below?

$$5\frac{1}{4} - 2\frac{1}{2}$$

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

16. Subtract (–)

$$\begin{array}{r} 11 \\ - 1\frac{2}{3} \\ \hline \end{array}$$

17. One-third of the people at a banquet ordered ice cream for dessert. The rest ordered pie. One-fourth of those requesting pie ordered apple pie. If 180 people attended the banquet, how many ordered apple pie?

18. John runs $\frac{8}{10}$ mile every day. How many miles does he run in 30 days?

19. Sara poured $1\frac{1}{8}$ cups of lemonade into each of 5 glasses. What was the total amount of lemonade Sara poured into the 5 glasses?

20. What is the value of the expression?

$$\frac{3}{7} \div \frac{3}{4}$$

21. $12 \div \frac{3}{4}$

22. Which of the following is equivalent to the expression below?

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

- A. $5\frac{1}{2}$ B. 4 C. 3 D. $2\frac{4}{9}$

23. Divide:

$$9 \div \frac{1}{4}$$

24. Divide:

$$\frac{1}{6} \div 7$$

25. A teacher divides a whole class into groups to work on a class project. Each group has one-sixth of all the children in the class. How many groups are there?

26. Chris has $\frac{4}{7}$ of a kilogram of garlic bread. He divides them equally among 4 children. How many kilograms of the garlic bread will each child get?

- A. $\frac{1}{7}$ B. $\frac{16}{7}$ C. $\frac{28}{4}$ D. $\frac{8}{7}$

27. Which of the following lists of decimal numbers is displayed in order, from the least to the greatest?

- A. 0.068, 0.086, 0.68, 0.86
B. 0.086, 0.068, 0.68, 0.86
C. 0.068, 0.68, 0.086, 0.86
D. 0.86, 0.68, 0.086, 0.068

28. In the number 237.9412, which digit is in the **thousandths** place?

29. Ned ordered a small statue of a wolf. The statue was \$39.95 plus \$5.99 for mailing. What was the total cost of the order?

30. $470.77 - 230.59 =$

31. Subtract the following and circle the answer:
 $3.2 - 0.895 =$

32. Brian earns \$5.15 per hour at his job. His older brother earns \$9.00 per hour at his job. How much more does Brian's older brother earn per hour?

33. Maria has \$7.50 to buy lunch. If she buys a turkey sandwich that costs \$2.75, how much money will she have left?

34. At Greg's party, $\frac{2}{3}$ of the guests wanted pizza. Of those guests, $\frac{4}{5}$ wanted cheese pizza. What fraction of Greg's guests wanted cheese pizza?

35. Maria had a collection of bracelets. Next week she will give her sister 18 of her bracelets, which is approximately $\frac{1}{3}$ of her collection.

Which of the following could be the number of bracelets in Maria's collection?

- A. 41 B. 46 C. 50 D. 53

36. Which statement shows twice as much as 8?

- A. $2 + 8$ B. $2 - 8$ C. 2×8 D. $2 \div 8$

37. Which expression shows 3 less than 20?

- A. $20 + 3$ B. $20 - 3$
C. 20×3 D. $20 \div 3$

38. What is the solution to the equation?

$$3 \times 10 + (9 \times 2) =$$

39. What is the solution to the equation?

$$5 + 9 \times 21 =$$

40. What is the simplified form of the expression below?

$$4 \times 5 + 2 \div 2$$

41. $8 + 8 \div 2 + 2 =$

42. Mary correctly used the order of operations to answer the following problem:

$$20 - 8 \cdot 4 \div 2 + 6$$

What is Mary's answer?

43. What is the sum of $-15 + 18$?

44. What is the product of $3(-16)$?

45. What is the solution to the equation?

$$\frac{12(-3) + 4}{4} =$$

46. What is the solution to the equation?

$$\frac{-8(-4) + (-6)}{2} =$$

47. What is the value of the expression shown below?.

$$-6 + (-9)$$

48. Which of the following is equivalent to the expression below?

$$(-5 + 6) + 2$$

- A. $-5(6 + 2)$ B. $2(-5 + 6)$
C. $-5 + (6 + 2)$ D. $2 + (-6 + 5)$

49. What is the value of the expression below?

$$3[1 + 2(1 + 2)]$$

50. What is the value of the expression below?

$$-13 - (-9)$$

51. Solve:

$$56 - (-42)$$

52. What is the value of the expression?

$$|-3 + (-9)|$$

53. What is the value of the expression?

$$|-5 + (-3)^2|$$

54. What is the value of the expression below?

$$|-2| - |4| + |3 - 10|$$

55. What is the value of the expression below?

$$|4| + |-9|$$

56. Order the numbers from greatest to least:

$$0.10; 99,989; 6.281; 9.0987$$

57. Simplify the expression.

$$\left(\frac{1}{3}\right)^2 \cdot \frac{3}{5}$$

58. Solve: $\left(\frac{1}{3}\right)^3$

59. Subtract $-\frac{2}{3} - \left(-\frac{2}{5}\right)$

60. Write the following in expanded form.

$$2^4 = \underline{\hspace{2cm}}$$

61. Express the product of 8 and 36 using exponents.

62. Which of the following is equivalent to the expression below?

$$10^4$$

A. 104

B. 10 + 4

C. 10 × 4

D. 10 × 10 × 10 × 10

63. Which of the following is equivalent to the expression below?

$$10^9$$

- A. 10,000,000 B. 100,000,000
C. 1,000,000,000 D. 10,000,000,000

64. $3^2 + 5^3 =$ _____

65. Evaluate:

$$5 + 2^4 \times 6$$

66. Compute:

$$(-4)^3$$

67. What is the value of the expression below?

$$4(2^3 - 7) - 5^2$$

68. What is the value of the expression below?

$$2 \cdot 7 + 4^3 \div 2$$

69. What is the value of the expression below?

$$[-(-4)]^2(-1)$$

70. Evaluate: $7^2 \times (9 - 4) + 10 \div 2 - 1$

71. Simplify: $3 + 2(6 - 2^2)$

72. What is $\frac{2}{3}$ as a decimal number?

73. 0.48 is what equivalent to what fraction?

74. Convert the fraction or decimal to its equivalent percent.

$$\frac{18}{40} =$$

75. Convert the fraction or decimal to its equivalent percent.

$$.007 =$$

76. Sheila needs $3\frac{3}{4}$ cups flour to make cookies. Which fraction is equivalent to $3\frac{3}{4}$ cups of flour?

A. $\frac{9}{4}$ B. $\frac{10}{4}$ C. $\frac{13}{4}$ D. $\frac{15}{4}$

77. A cubic inch of water weighs 0.036 pound. Which fraction is equal to the weight of a cubic inch of water?

A. $\frac{1}{360}$ B. $\frac{1}{36}$ C. $\frac{36}{1,000}$ D. $\frac{36}{100}$

78. Sofia ate $\frac{3}{4}$ of her candy. What is the decimal equivalent of $\frac{3}{4}$?

79. What decimal is equal to $\frac{3}{5}$?

80. Which fraction is the same as 3.08?

A. $\frac{56}{25}$ B. $\frac{77}{25}$ C. $\frac{19}{5}$ D. $\frac{32}{5}$

81. Easha has 3 less than 5 times the number of quarters (I) that Isabelle has. Which expression shows the number of quarters Easha has?

A. $3I - 5$ B. $5I - 3$ C. $5 - 3I$ D. $3 - 5I$

82. Choose the number sentence that means "2 more than 2 times a number."

83. Kelly ran 3 miles fewer than twice as far as Jim. Jim ran m miles. Which expression represents how far Kelly ran?

A. $3 - 2m$ B. $2m - 3$
C. $3m - 2$ D. $2(m - 3)$

84. Which of the following expressions represents a number (n) less than 12?

- A. $n - 12$ B. $12 - n$
C. $n + 12$ D. $12 + n$

85. Which expression represents the product of n and 25?

- A. $25n$ B. $25 - n$
C. $25 + n$ D. $25 \div n$

86. Which expression represents a pattern that decreases by two?

- A. $2 - n$ B. $n - 2$ C. $2n$ D. $-2n$

87. Write an expression:

7 more than 3 times a number

88. Write an expression:

3 times the sum of a number and 5

89. What is "two more than the quotient of six and a number, n ," written as an algebraic expression?

90. Kyle and Becky were selling candy bars for the student council fundraiser. Kyle sold twice as many candy bars as Becky. If Becky sold x number of candy bars, which expression shows the total number of candy bars Kyle and Becky sold?

- A. x^2 B. $x + 2$ C. $x + 2x$ D. $x + x$

91. This week Shauna practiced her saxophone for 25 minutes less than 3 times the number of minutes she practiced last week. If she practiced m minutes last week, which expression represents how many minutes she practiced this week?

- A. $3m - 25$ B. $3 - 25m$
C. $25 - 3m$ D. $25m - 3$

92. What is the value of $p - p(0.10)$ when $p = \$60.00$?

93. What is the value of the expression below when $n = 5.1$?

$$4 \times n$$

94. Look at the expression.

$$6x + 3$$

What is the value of the expression when $x = \frac{2}{3}$?

95. What does x^5 equal when $x = -2$?

96. If $x = -7$, then $-x =$

97. What is the value of the expression below if $a = 3$?

$$15 - (a + 8)$$

98. If $n = 31$, what is the value of $6 - n$?

99. If $x = 5$, what is the value of $-8x + 3$?

100. Erica volunteered to go to the board to show how to correctly add $(x - 1)$ and $3(x + 2)$.

What should Erica's answer be?

101. What is the simplified form of this expression?

$$4(2x - 5y) - 3x$$

102. Use the expression below to answer the following question(s).

$$2x - 3(5x - 8)$$

Which could be the first step in simplifying the expression above?

A. $2x - 15x + 8$

B. $2x - 15x - 24$

C. $2x - 15x - 8$

D. $2x - 15x + 24$

103. Simplify.

$$10 - 3(p + 2)$$

104. Which expression is the result when $2a - 5$ is subtracted from $3a + 3$?

- A. $a - 2$ B. $5a - 2$
C. $a + 8$ D. $-a + 8$

105. What is the result of the first step when simplifying $13 - 4(x - 5)$?

106. Simplify: $10 + 2(4 + w)$

107. How can the expression $3(x + 4) + 5x - 14$ be simplified?

108. Simplify: $-10 + 2(4 + w)$

109. Add: $(c + 4) + (2c - 1)$

110. If $t = 11$ and $s = 5$, evaluate the following expression: $3t - 5s$

111. Evaluate this expression if $x = 7$ and $y = 3$: $7y - 2x$

112. What is the value of $8x + 2y$ when $x = 5$ and $y = 9$?

113. Evaluate this expression if $p = 0$ and $s = -4$:
 $2s + 3p - 4(p - s)$

114. Simplify the expression below.

$$13y + x - 7y$$

115. Which expression shows $3(x + y)$ in its simplified form?

- A. $3xy$ B. $3x + y$
C. $3x + 3y$ D. $3 + x + y$

116. Simplify the expression $2x(5 + y)$.

117. Simplify: $6b + 4a + 3a - 2b$

118. Simplify: $6(a - 2b) + 3(4a + b)$

119. What is the value of the expression below when $a = -4$ and $b = 3$?

$$a^2 + |ab|$$

120. Which of the following is the value of $a - 2b^2$ for $a = 19$ and $b = -2$?

A. 3 B. 11 C. 27 D. 35

121. The least common multiple of 8 and 12 is _____.

122. What is the least common multiple of 5, 10, and 20?

123. What is the least common multiple (LCM) of 4 and 14?

124. What is the least common multiple of 5 and 15?

125. Which is the greatest common factor (GCF) of 36 and 78?

A. 4 B. 6 C. 9 D. 13

126. What is the greatest common divisor of 54, 36, and 24?

127. What is the greatest common factor of 18 and 24?

128. Which are the common factors of 12 and 16?

- A. {1, 2, 4} B. {1, 2, 3, 4, 8}
C. {1, 2, 4, 6, 8} D. {1, 2, 3, 4, 6, 8}

129. Which list shows all factors of 72?

- A. 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72
B. 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72
C. 1, 2, 3, 4, 8, 9, 18, 24, 36, 72
D. 2, 3, 4, 6, 8, 9, 12, 18, 24, 36

130. Both 54 and 72 are divisible by which group of numbers?

- A. 5, 6, 9 B. 3, 6, 9
C. 2, 6, 10 D. 6, 9, 10

131. What are the factor pairs for 96?

132. Which of the following lists *all* the factors of 56?

- A. 1, 4, 6, 7, 8, 9, 16, 56
B. 1, 2, 4, 7, 8, 14, 28, 56
C. 1, 2, 28, 56
D. 1, 56

133. Which of the following is equivalent to $7(5n + 1)$?

- A. $36n$ B. $42n$
C. $35n + 1$ D. $35n + 7$

134. Which of the following is equivalent to the expression?

$$2(3x - 2y) + 4y$$

- A. $6x$ B. $6x + 8y$
C. $6x - 2y$ D. $2xy + 4y$

135. Which of the following is equivalent to $3(8x + 2)$?

- A. $26x$ B. $30x$
C. $24x + 2$ D. $24x + 6$

136. Mario received a \$30 gift card to a bookstore for his birthday. He used it to buy 4 books that cost \$7 each.

Write an equation to show how much money, m , he has left on the gift card after buying the 4 books.

137. What is x if $3x = 84$?

138. What value of r makes $\frac{r}{-11} = -3$ true?

139. Solve each of the unknowns in the equations below:

$$x - 76 = 102$$

140. Solve each of the unknowns in the equations below:

$$750 + y = 805$$

141. If $x - 3 = 6$, what is the value of x ?

142. Choose the correct solution for the equation:
 $5x + 8 = 43$

143. For what value of x will $3x + 4 = x - 6$ be a true statement?

144. Solve: $4(6x - 10) = 8x + 40$

145. Choose the correct solution for the equation:
 $x/2 - 12 = 24$

146. What is the solution to the inequality $x - 5 > 14$?

147. Look at the inequality below.

$$-2x \leq 6$$

Which of these *best* describes the solution of this inequality?

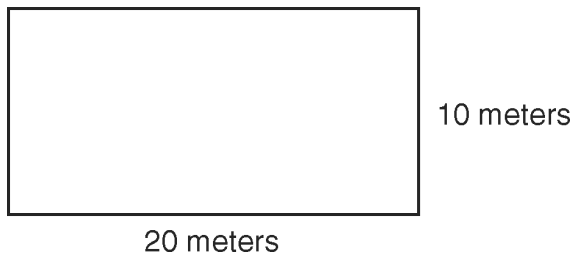
- A. $x \geq -3$ B. $x \leq -3$
C. $x \geq 3$ D. $x \leq 3$

148. What is the solution of the inequality $\frac{3}{8}x > 9$?

149. Combine Like Terms:

$$6x^2 + 3x + 9x^2 + 3$$

150. A basketball court is shaped like a rectangle 20 meters long and 10 meters wide.



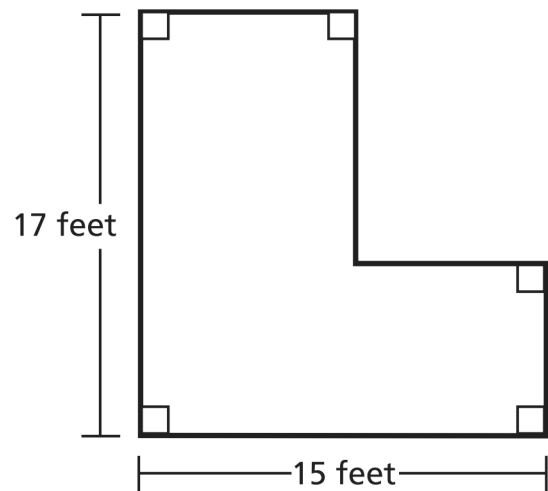
What is the perimeter in meters of the court?

151. A bush pilot was asked to fly the perimeter of a state park to look for black bears. The state park is a rectangular shape 20 miles wide and 32 miles long. What is the perimeter of the state park?

152. Sal is building a fence around the perimeter of his yard for his dog. His yard is the shape of a rectangle. It is 5 yards long and 7 yards wide. What is the perimeter of Sal's fence?

153. A sewing club is making a quilt consisting of 25 squares with each side of the square measuring 30 centimeters. If the quilt has five rows and five columns, what is the perimeter of the quilt?

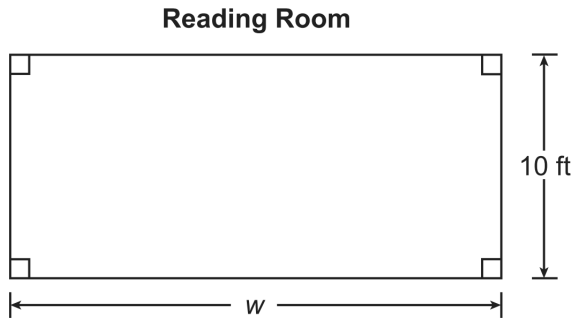
154. Look at the figure below.



What is the perimeter, in feet, of the figure?

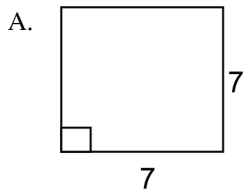
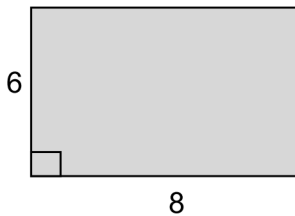
155. The perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?

156. The figure below shows a diagram of a reading room.

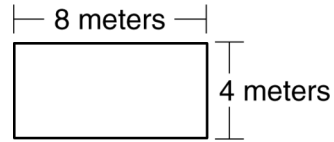


The perimeter of the reading room is 60 feet (ft).
What is the width, w , of the reading room?

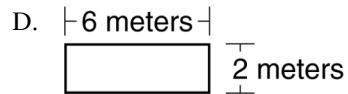
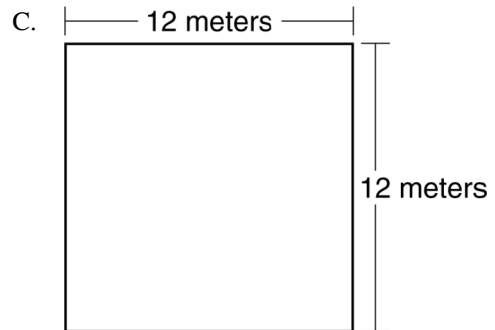
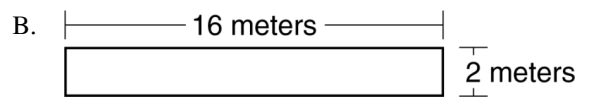
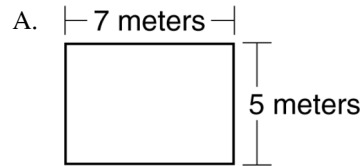
157. Which polygon has the same perimeter as the one below?



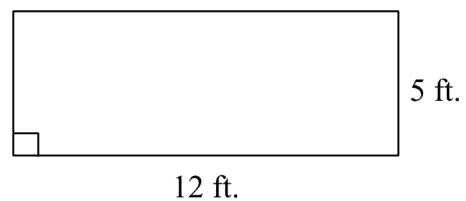
158. A diagram of Tameka's garden, which is a rectangle, is shown below.



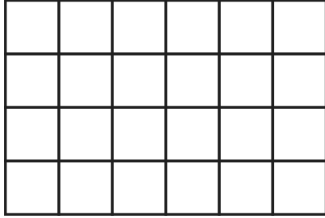
Which of these rectangular figures has a perimeter that is equal to the perimeter of Tameka's garden?



159. What is the area of this rectangle?



160. A rectangle is 6 inches long and 4 inches wide.
What is the area of the rectangle?



161. What is the area of a 3 cm by 6 cm rectangle?

162. A rectangle has a length of $4\frac{1}{2}$ inches and a width of $2\frac{3}{4}$ inches.

What is the area of the rectangle, in square inches?

163. Which statement about the figures is true?

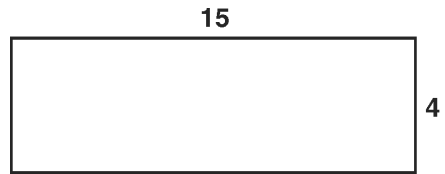


Figure 1

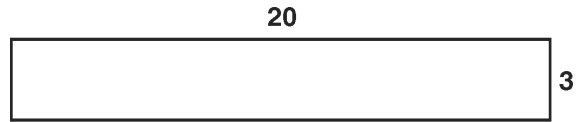
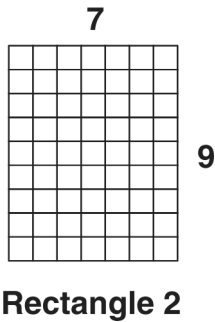
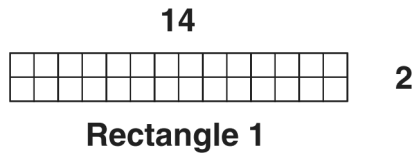


Figure 2

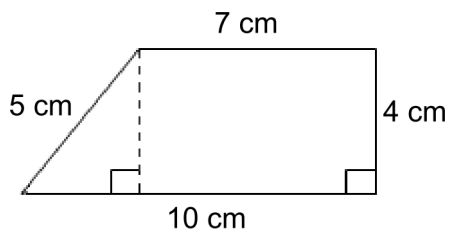
- A. They both have the same area.
- B. They both have the same width.
- C. They both have the same length.
- D. They both have the same perimeter.

164. Which statement about the figures is true?



- A. They have different areas.
- B. They have the same area.
- C. They have the same length.
- D. They have different perimeters.

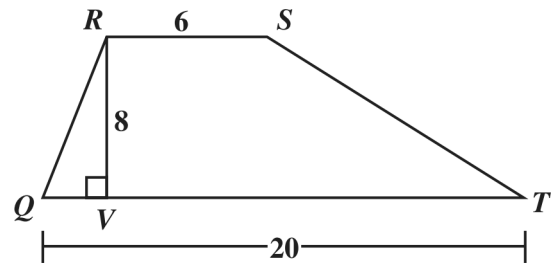
165. Look at the figure below.



What is the total area of the figure?

166. What is the area, in square units, of trapezoid $QRST$ shown below?

$$[A = \frac{1}{2}h(b_1 + b_2)]$$



167. There are 20 teachers and 705 students in Corey's school. What is the ratio of teachers to students?

168. Jan's flower garden has only daffodils and tulips in it. There are 15 daffodils and 12 tulips. What is the ratio of the number of tulips to the total number of flowers in Jan's garden?

169. Brianna was asked to find the distance traveled by an airplane that was flying with a speed of 89 miles per hour for 2.4 hours. She estimated using the multiplication $90 \times 2 = 180$ miles. Her answer is less than the actual answer because

170. $\frac{15}{k} = \frac{6}{22}$

171. Solve the following proportion:

$$\frac{12}{25} = \frac{x}{88}$$

172. What is 40% of 250?

173. 60% of 240 =

174. 49% of 840 is

175. Beth bought two new tires for her race car. Each tire originally cost \$74.95. She received a 15% discount.

How much did she pay for her two new tires?

176. 40% of what number is 120?

177. If 6 is 30% of a value, what is that value?

178. The number 18 is 24% of which number?

- A. 4.32 B. 75 C. $133\frac{1}{3}$ D. 432

179. A music player is on sale for 15% off of the original price. The sale price is \$170.00. What is the regular price of the music player?

180. A shirt is on sale for 40% off. The sale price is \$12. What was the original price? What was the amount of the discount?

181. Joey estimated that 28% of \$52 is \$13. Is Joey's answer greater or less than the exact answer? Explain your reasoning.

182. The cost of an afternoon movie ticket was \$4.00. This year an afternoon movie ticket costs \$5.00. What is the percent increase of the ticket from last year to this year?

183. The weekly sales of a magazine increased from 500,000 to 600,000. By what percentage did the magazine sales increase?

184. Write 0.27 as a fraction.

185. .89 is what percent?

186. Nick bought $2\frac{3}{8}$ yards of material. Which fraction is equal to the number of yards of material Nick bought?

- A. $\frac{6}{8}$ B. $\frac{13}{8}$ C. $\frac{14}{8}$ D. $\frac{19}{8}$

187. Cedric has \$0.45 in his pocket. Which fraction of a dollar does Cedric have?

- A. $\frac{9}{20}$ B. $\frac{11}{20}$ C. $\frac{4}{5}$ D. $\frac{9}{10}$

188. Mia's basketball team won 80% of its games. What fraction of their games did they win?

189. Which means the same as 2 tens and 18 ones?

190. Which is another way to write the number 52,068?

- A. $5 + 2 + 0 + 6 + 8$
B. $50,000 + 200 + 60 + 8$
C. 52 thousands, 6 tens, 8 ones
D. five thousand two hundred sixty-eight

191. There were 2,371 people at a basketball game.

What is another way to write 2,371?

192. Wally eats breakfast $\frac{1}{3}$ of the mornings he goes to school. Which is another way to describe this?

193. There are 8 players on a basketball team.

There are 4 girls on the team.

What fraction of the players on the team are girls?

194. A hardware store sells boxes of nails. The nails are $\frac{5}{8}$, $\frac{9}{16}$, $\frac{3}{4}$, and $\frac{1}{2}$ inch in length. If the boxes of nails are to be arranged by nail size from least to greatest, which of the following is the correct order?

- A. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{9}{16}$ B. $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{3}{4}$
C. $\frac{3}{4}$, $\frac{5}{8}$, $\frac{9}{16}$, $\frac{1}{2}$ D. $\frac{3}{4}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{1}{2}$

195. The sizes of bolts in Tracy's toolbox are listed below.

$$\frac{3}{4}, \frac{3}{16}, \frac{1}{2}, \frac{5}{8}, \frac{9}{16}$$

Which is the order of the bolts from least to greatest?

- A. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{16}$, $\frac{5}{8}$, $\frac{9}{16}$ B. $\frac{3}{16}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{9}{16}$
C. $\frac{3}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{3}{4}$ D. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{3}{16}$, $\frac{9}{16}$

196. Which of the following lists the mixed numbers in order from *least to greatest*?

- A. $7\frac{1}{7}$ $4\frac{3}{7}$ $2\frac{4}{7}$ $1\frac{6}{7}$ B. $5\frac{2}{7}$ $6\frac{1}{7}$ $6\frac{5}{7}$ $7\frac{3}{7}$
C. $2\frac{3}{7}$ $2\frac{1}{7}$ $3\frac{4}{7}$ $4\frac{2}{7}$ D. $6\frac{2}{7}$ $3\frac{3}{7}$ $3\frac{5}{7}$ $5\frac{4}{7}$

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- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1.
Answer: D
Points: 1</p> <p>2.
Answer: 13 tens + 5 ones
Points: 1</p> <p>3.
Answer: B
Objective: 1-2-10
Points: 1</p> <p>4.
Answer: B
Objective: CC 3.NF.3B
Points: 1</p> <p>5.
Answer: $\frac{3}{4}$
Objective: MA 10.N.4
Points: 1</p> <p>6.
Answer: $\frac{3}{5}$
Objective: CC 5.NF.3
Points: 1</p> <p>7.
Answer: $1\frac{1}{2}$ brownies
Objective: CC 3.NF.1
Points: 1</p> <p>8.
Answer: $\frac{3}{1}$0 of a box
Objective: CC 5.NF.3
Points: 1</p> <p>9.
Answer: A
Objective: M1.3.1
Points: 1</p> <p>10.
Answer: A
Objective: M1.3.1
Points: 1</p> <p>11.
Answer: $\frac{13}{15}$
Objective: M3.2.3
Points: 1</p> | <p>12.
Answer: D
Objective: 7.NS.2.2
Points: 1</p> <p>13.
Answer: $\frac{8}{10}$
Points: 1</p> <p>14.
Answer: $\frac{7}{12}$
Objective: 7.NS.2.2
Points: 1</p> <p>15.
Answer: B
Objective: MA 5.N.13
Points: 1</p> <p>16.
Answer: $9\frac{1}{3}$
Objective: PA M8.A.3.3
Points: 1</p> <p>17.
Answer: 30
Points: 1</p> <p>18.
Answer: 24
Objective: 5.NS.2.5
Points: 1</p> <p>19.
Answer: $5\frac{5}{8}$ cups
Objective: CC 5.NF.6
Points: 1</p> <p>20.
Answer: $\frac{4}{7}$
Objective: 1-2-4
Points: 1</p> <p>21.
Answer: 16
Objective: 5.NS.2.4
Points: 1</p> <p>22.
Answer: A
Objective: CC 6.NS.1
Points: 1</p> <p>23.
Answer: 36
Objective: CC 5.NF.7B
Points: 1</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

24.
Answer: $\frac{1}{42}$
Objective: CC 5.NF.7A
Points: 1

25.
Answer: 6
Objective: 2.NS.4.3
Points: 1

26.
Answer: A
Objective: CC 4.NF.4
Points: 1

27.
Answer: A
Objective: M1.3.1
Points: 1

28.
Answer: 1
Objective: M1.2.2
Points: 1

29.
Answer: \$45.94
Points: 1

30.
Answer: 240.18
Objective: M3.2.3
Points: 1

31.
Answer: 2.305
Objective: M3.3.3
Points: 1

32.
Answer: \$3.85
Points: 1

33.
Answer: \$4.75
Objective: 5.NS.2.1
Points: 1

34.
Answer: less than $\frac{2}{3}$
Points: 1

35.
Answer: D
Objective: 1-3-1
Points: 1

36.
Answer: C
Objective: 3.AF.1.1
Points: 1

37.
Answer: B
Objective: 3.AF.1.1
Points: 1

38.
Answer: 48
Objective: 1-2-6
Points: 1

39.
Answer: 194
Objective: 1-2-5
Points: 1

40.
Answer: 21
Objective: 1-2-15
Points: 1

41.
Answer: 14
Objective: 6.AF.1.4
Points: 1

42.
Answer: 10
Points: 1

43.
Answer: 3
Objective: M3.3.3
Points: 1

44.
Answer: -48
Objective: M3.3.3
Points: 1

45.
Answer: -8
Objective: 1-2-1
Points: 1

46.
Answer: 13
Objective: 1-2-1
Points: 1

47.
Answer: -15
Objective: MA 6.N.15
Points: 1

48.
Answer: C
Objective: MA 8.N.8
Points: 1

49.
Answer: 21
Objective: MA 10.N.2
Points: 1

50.	Answer: -4	62.	Answer: D
Objective: CC 7.NS.1		Objective: MA 5.N.1	
Points: 1		Points: 1	
51.	Answer: 98	63.	Answer: C
Objective: PA A.3.2.2		Objective: MA 6.N.1	
Points: 1		Points: 1	
52.	Answer: 12	64.	Answer:
Objective: 1-1-4		Objective: M1.4.4	
Points: 1		Points: 1	
53.	Answer: 4	65.	Answer: 101
Objective: 1-1-4		Objective: CC 6.EE.1	
Points: 1		Points: 1	
54.	Answer: 5	66.	Answer: -64
Objective: 1-2-3		Objective: MA 8.N.-	
Points: 1		Points: 1	
55.	Answer: 13	67.	Answer: -21
Objective: MA 7.N.4		Objective: MA 10.N.2	
Points: 1		Points: 1	
56.	Answer: 99,989, 9.0987, 6.281, 0.10	68.	Answer: 46
Objective: M1.2.1		Objective: MS 1d2	
Points: 1		Points: 1	
57.	Answer: $\frac{1}{15}$	69.	Answer: -16
Objective: M3.4.3		Objective: MS 2a1	
Points: 1		Points: 1	
58.	Answer: $\frac{1}{27}$	70.	Answer: 249
Objective: CC 8.EE.2		Objective: 1.12	
Points: 1		Points: 1	
59.	Answer: $-\frac{4}{15}$	71.	Answer: 7
Objective: CC 7.NS.1		Points: 1	
Points: 1		72.	Answer: .66666...
60.	Answer: $2^x 2^x 2^2$	Objective: M1.3.4	
Objective: M1.2.4		Points: 1	
Points: 1		73.	Answer: $\frac{12}{25}$
61.	Answer: $2^3 \times 6^2$	Objective: M1.3.4	
Objective: M1.3.1		Points: 1	
Points: 1		74.	Answer: 45%
		Objective: M3.3.5	
		Points: 1	

75.
 Answer: .7%
 Objective: M3.3.5
 Points: 1

76.
 Answer: D
 Points: 1

77.
 Answer: C
 Points: 1

78.
 Answer: 0.75
 Objective: 1-1-4
 Points: 1

79.
 Answer: 0.60
 Objective: 5.NS.1.2
 Points: 1

80.
 Answer: B
 Objective: 7.NS.1.5
 Points: 1

81.
 Answer: B
 Points: 1

82.
 Answer: $2 + 2n$
 Objective: M4.3.5
 Points: 1

83.
 Answer: B
 Points: 1

84.
 Answer: B
 Objective: 3-3-3
 Points: 1

85.
 Answer: A
 Objective: 5.AF.1.2
 Points: 1

86.
 Answer: D
 Points: 1

87.
 Answer: $3x + 7$
 Objective: CC 6.EE.2
 Points: 1

88.
 Answer: $3(x + 5)$
 Objective: CC 6.EE.2
 Points: 1

89.
 Answer: $\frac{6}{n} + 2$
 Objective: CC 6.EE.6
 Points: 1

90.
 Answer: C
 Objective: LA A.1
 Points: 1

91.
 Answer: A
 Objective: CC 6.EE.2
 Points: 1

92.
 Answer: \$54.00
 Points: 1

93.
 Answer: 20.4
 Objective: 3-3-1
 Points: 1

94.
 Answer: 7
 Objective: 3-3-4
 Points: 1

95.
 Answer: -32
 Objective: 7.AF.2.1
 Points: 1

96.
 Answer: 7
 Objective: 1A.2.0
 Points: 1

97.
 Answer: 4
 Objective: 4.AF.1.2
 Points: 1

98.
 Answer: -25
 Objective: 5.AF.1.2
 Points: 1

99.
 Answer: -37
 Points: 1

100.
 Answer: $4x + 5$
 Points: 1

101.
 Answer: $5x - 20y$
 Objective: LA A-2-H
 Points: 1

102.
Answer: D
Objective: MA 10.N.-
Points: 1

103.
Answer: $-3p + 4$
Objective: 2.3
Points: 1

104.
Answer: C
Points: 1

105.
Answer: $13 - 4x + 20$
Objective: MS 2b1
Points: 1

106.
Answer: $2w + 18$
Objective: 5.01
Points: 1

107.
Answer: $8x - 2$
Objective: 5.02
Points: 1

108.
Answer: $-2 + 2w$
Objective: 1.10
Points: 1

109.
Answer: $3c + 3$
Points: 1

110.
Answer: 8
Objective: M4.3.5
Points: 1

111.
Answer: 7
Objective: M4.3.5
Points: 1

112.
Answer: 58
Points: 1

113.
Answer: -24
Objective: M4.3.5
Points: 1

114.
Answer: $6y + x$
Objective: CC 7.EE.1
Points: 1

115.
Answer: C
Objective: MS 2e1
Points: 1

116.
Answer: $10x + 2xy$
Objective: M1.4.5
Points: 1

117.
Answer: $4b + 7a$
Points: 1

118.
Answer: $18a - 9b$
Objective: 5.02
Points: 1

119.
Answer: 28
Objective: 3-3-8
Points: 1

120.
Answer: B
Objective: MA 8.P.2
Points: 1

121.
Answer: 24
Objective: PA M5.A.1.6
Points: 1

122.
Answer: 20
Points: 1

123.
Answer: 28
Objective: 1-1-6
Points: 1

124.
Answer: 15
Points: 1

125.
Answer: B
Objective: M1.2.6
Points: 1

126.
Answer: 6
Objective: 6.NS.2.4
Points: 1

127.
Answer: 6
Objective: II.B
Points: 1

128.
Answer: A
Points: 1

129.		142.	
Answer:	A	Answer:	$x = 7$
Objective:	1-1-2	Objective:	M4.3.5
Points:	1	Points:	1
130.		143.	
Answer:	B	Answer:	$x = -5$
Objective:	LA N.1	Points:	1
Points:	1	144.	
131.		Answer:	5
Answer:	1 and 96, 2 and 48, 3 and 32, 4 and 24, 6 and 16, 8 and 12.	Objective:	30604
Objective:	CC 4.OA.4	Points:	1
Points:	1	145.	
132.		Answer:	$x = 72$
Answer:	B	Objective:	M4.3.5
Objective:	1-1-9	Points:	1
Points:	1	146.	
133.		Answer:	$x > 19$
Answer:	D	Objective:	1A.5.0
Points:	1	Points:	1
134.		147.	
Answer:	A	Answer:	A
Objective:	60501	Objective:	1.2.2
Points:	1	Points:	1
135.		148.	
Answer:	D	Answer:	$x > 24$
Points:	1	Objective:	5.03
136.		Points:	1
Answer:	$m = 30 - 4 \times 7$	149.	
Objective:	CC 3.OA.8	Answer:	$15x^2 + 3x + 3$
Points:	1	Points:	1
137.		150.	
Answer:	28	Answer:	60 meters
Objective:	6.AF.1.1	Objective:	3.MG.1.3
Points:	1	Points:	1
138.		151.	
Answer:	33	Answer:	104 miles
Objective:	6.AF.1.1	Points:	1
Points:	1	152.	
139.		Answer:	24 yards
Answer:	178	Objective:	4-4-5
Objective:	M4.2.5	Points:	1
Points:	1	153.	
140.		Answer:	600 cm
Answer:	55	Objective:	GE.8.0
Objective:	M4.2.5	Points:	1
Points:	1	154.	
141.		Answer:	64 feet
Answer:	9	Points:	1
Objective:	6.AF.1.1		
Points:	1		

155.
Answer:
Objective: CC 7.EE.4
Points: 1
156.
Answer: 20 ft
Objective: CC 4.MD.3
Points: 1
157.
Answer: A
Objective: 4-4-2
Points: 1
158.
Answer: A
Objective: LA M.1
Points: 1
159.
Answer: 60 ft.²
Objective: 4-4-9
Points: 1
160.
Answer: 24 square inches
Objective: 3.MG.1.2
Points: 1
161.
Answer:
Points: 1
162.
Answer: $12\frac{3}{8}$
Points: 1
163.
Answer: A
Objective: 4.MG.1.2
Points: 1
164.
Answer: A
Objective: 4.MG.1.3
Points: 1
165.
Answer: 34 cm²
Objective: 4-4-5
Points: 1
166.
Answer: 104
Objective: 7.MG.2.1
Points: 1
167.
Answer: $\frac{4}{141}$
Points: 1
168.
Answer: 4 : 9
Points: 1
169.
Answer: she rounded the speed up a small amount and the time down a large amount.
Objective: M3.4.1
Points: 1
170.
Answer: $k = 55$
Objective: M3.3.6
Points: 1
171.
Answer: $x = 42.24$
Objective: M3.3.6
Points: 1
172.
Answer: 100
Objective: 5.NS.1.2
Points: 1
173.
Answer: 144
Points: 1
174.
Answer: a little less than 420.
Points: 1
175.
Answer: \$127.41
Objective: M3.3.3
Points: 1
176.
Answer: 300
Objective: M3.3.3
Points: 1
177.
Answer: 20
Objective: CC 6.RP.3
Points: 1
178.
Answer: B
Objective: 1.1.B
Points: 1
179.
Answer: \$200.00
Objective: 1-2-3
Points: 1
180.
Answer:
Objective: CC 7.RP.3
Points: 1

181.
Answer: Less, 25% of \$52 is \$13
Objective: M3.4.1
Points: 1

182.
Answer: 25%
Objective: 7.NS.1.6
Points: 1

183.
Answer: 20%
Objective: 7.NS.1.6
Points: 1

184.
Answer: $\frac{27}{100}$
Objective: M1.3.4
Points: 1

185.
Answer: 89%
Objective: M1.3.4
Points: 1

186.
Answer: D
Points: 1

187.
Answer: A
Points: 1

188.
Answer: $\frac{4}{5}$
Points: 1

189.
Answer: 38
Points: 1

190.
Answer: C
Objective: MA 4.N.-
Points: 1

191.
Answer: 23 hundreds and 71 ones
Objective: II.A
Points: 1

192.
Answer: Wally eats breakfast 5 out of 15 school mornings.
Points: 1

193.
Answer: $\frac{1}{2}$
Objective: PA A-F.1.1.3
Points: 1

194.
Answer: B
Points: 1

195.
Answer: C
Points: 1

196.
Answer: B
Objective: 1-1-5
Points: 1