SAXON 6/5

SUMMER

MATH REVIEW

PACKET

Dear Parents,

The Classical Math Committee would like to take this opportunity to give some reminders about and suggestions for using this math packet.

- This math packet is meant as a review of the previous year's concepts. No new material is presented here, so the problems should not require a lot of effort.

- Since this packet is meant as a review, parents and/or students may not use the packet as an indicator for math level advancement—again the problems should not require a lot of effort.

- Since the packet is a review and preparation for the next math level, students should wait until the end of July or early August to work on it. That way they will reap the benefits of having a review right before starting new curriculum in fall.

- Students should complete the math packet material over the course of several weeks. There is no benefit to rushing through the whole packet in just a few days.

- Finally, parents whose student struggles with this packet should let the administrator or the teacher who will have the student in fall know of the student's struggles.

Thank you,

Classical Math Committee

You may want to have your child visit the following sites for additional practice.

http://www.mathfactcafe.com/ For elementary math fact practice.

https://www.math-drills.com Worksheets for all levels and on-line practice.

Post Saxon 6/5 Review

Divide:

1. $9\overline{)981}$

[1] _____

2. $4\overline{)834}$

[2] _____

3. **When the students voted for president, Jason received 117 votes and Jeremy received 155 votes. Jeremy won by how many votes?**

[3] _____

4. **Kris is 4 years younger than his brother Terell. Kris is 15 years old. How old is Terell?**

[4] _____

5. **There were 8 more boys than girls in the class. If there were 12 boys in the class, how many girls were there?**

[5] _____

6. **Kris is 3 years younger than his brother Terell. Kris is 12 years old. How old is Terell?**

[A] 13 yr [B] 14 yr [C] 16 yr [D] 15 yr

[6] _____

7. **How many years were there from 1482 to 1582?**

[7] _____

8. **How many years were there from 1272 to 1716?**

[8] _____

9. **How many years were there from 1223 to 1414?**

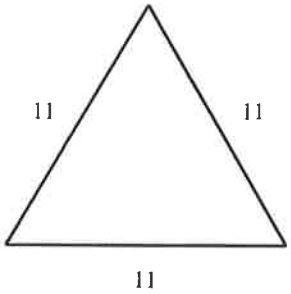
[9] _____

10. **How many years were there from 1203 to 1416?**

[A] 213 yr [B] 203 yr [C] 208 yr [D] 223 yr

[10] _____

11. **Classify the triangle as equilateral, isosceles, or scalene.**

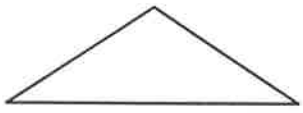


[11] _____

12. **Name the triangle in which all three angles are acute.**

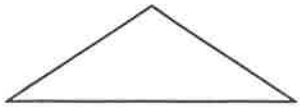
[12] _____

13. **Classify the triangle as equilateral, isosceles, or scalene and as right, obtuse, or acute.**



[13] _____

14. Classify the triangle as equilateral, isosceles, or scalene and as right, obtuse, or acute.



[A] equilateral, right [B] isosceles, obtuse [C] isosceles, right [D] equilateral, obtuse

[14] _____

---

15. There are 32 people on your swim team. One half of the team went to a swim meet in June. How many people went to the swim meet in June?

[15] _____

---

16. Emily practiced the trumpet for $\frac{2}{5}$ of an hour. For how many minutes did she practice the trumpet?

[16] _____

---

17. Every package of jolly gobs has 56 gobs. If five eighths of the gobs are red and the rest are blue, into how many parts was the group divided? How many gobs are in each part?

[17] _____

---

18. Every package of jolly gobs has 72 gobs. If three eighths of the gobs are red and the rest are blue, into how many parts was the group divided? How many parts are blue?

[A] 8, 5 [B] 9, 3 [C] 8, 3 [D] 9, 5

[18] _____

Multiply:

19.
$$\begin{array}{r} 75 \\ \times\ 26 \\ \hline \end{array}$$

[19] _____

Multiply:

20. 644×63

[20] _____

---

21. \$2.09
$\times$ 26

[21] _____

---

22. 708
$\times$ 27

[22] _____

---

23. \$0.03
$\times$ 72

[23] _____

---

24. \$0.07
$\times$ 51

[A] \$223.87 [B] \$187.17 [C] \$3.57 [D] \$1.50

[24] _____

Divide:

25. $60\overline{)840}$

[25] _____

---

26. $50\overline{)\$5.50}$

[26] _____

Divide:

27. $10\overline{)484}$

[27] _____

---

28. $60\overline{)\$4.90}$

[A] \$0.08 [B] \$10.82 [C] \$1.08 [D] \$0.82

[28] _____

Multiply:

29. 137
× 819

[29] _____

---

30. 247
× 178

[30] _____

---

31. 803
× 835

[A] 670,605 [B] 670,505 [C] 669,405 [D] 670,495

[31] _____

---

32. Find the product of 981 and 509.

[32] _____

Multiply:

33. 256×250

[33] _____

---

34. $\$2.38$
$\times \ 590$

[34] _____

---

35. $\$2.01$
$\times \ 560$

[A] $1125.60 [B] $1115.60 [C] $1225.60 [D] $11,256.00

[35] _____

Subtract:

36. $10 - 7\frac{2}{3}$

[36] _____

---

37. $5 - 3\frac{3}{4}$

[37] _____

---

38. $39 - 18\frac{4}{5}$

[A] $21\frac{4}{5}$ [B] $21\frac{1}{5}$ [C] $20\frac{4}{5}$ [D] $20\frac{1}{5}$

[38] _____

39. **80 millimeters is how many centimeters?**

[39] _____

40. **William is 1 meter plus 31 centimeters tall. Use a decimal number to write his height in meters.**

[40] _____

41. **Find the reasonable height for a basketball hoop expressed in metric terms.**

[41] _____

42. **What is a reasonable height for a house?**

[A] 10 cm [B] 10 mm [C] 10 km [D] 10 m

[42] _____

43. **Write 2.214 in words.**

[43] _____

44. **Write fifty-six and thirty-three thousandths in standard form.**

[44] _____

45. **Write forty-one and thirty-eight hundredths in standard form.**

[45] _____

46. **Which represents forty-two and thirty-seven thousandths in standard form?**

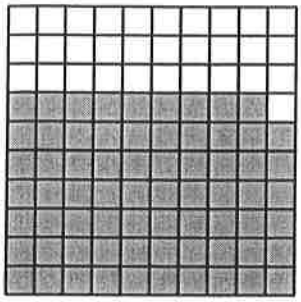
[A] 4,237,000 [B] 0.4237 [C] 42.037 [D] 42.37

[46] _____

47. **The fraction $\frac{3}{5}$ is equivalent to 0.6 and to 60%. Express 0.6 and 60% as unreduced fractions.**

[47] _____

48. **Express the shaded part as a fraction, as a decimal, and as a percent.**

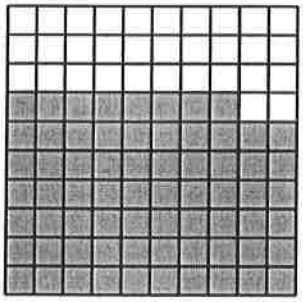


[48] _____

49. **Compare: 1.231 ◯ 1.739**

[49] _____

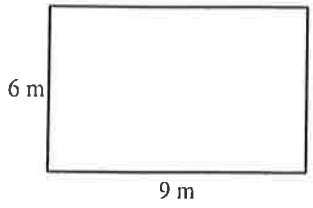
50. **Express the shaded part as a fraction, as a decimal, and as a percent.**



[A] $\frac{32}{100}$; 3.2; 32% [B] $\frac{68}{100}$; 0.68; 68% [C] $\frac{32}{100}$; 0.32; 32% [D] $\frac{68}{100}$; 6.8; 68%

[50] _____

51. What is the area of this rectangle?



[51] _____

---

52. Estimate the area of a room that is 16 ft 7 in. **long and** 9 ft 7 in. **wide.**

[A] 144 ft^2 [B] 170 ft^2 [C] 153 ft^2 [D] 160 ft^2

[52] _____

---

53. Add: 9.73
+ 4.1

[53] _____

---

54. Subtract: 7.72
− 5.1

[54] _____

---

55. Add: 10
15.47
+ 14.3

[55] _____

---

56. In a three-person medley relay race, the 100-meter leg was run in 9.99 seconds, the 200-meter leg in 20.53 seconds, and the 400-meter leg in 45.79 seconds. What was the total time for the race?

[A] 76.31 sec [B] 77.31 sec [C] 76.41 sec [D] 25.44 sec

[56] _____

Multiply:

57. $\frac{1}{7} \times \frac{5}{9}$

[57] _____

---

58. $\frac{7}{9} \times \frac{7}{9}$

[58] _____

---

59. A nickel is what fraction of a dollar?

[59] _____

---

60. A nickel is what fraction of a dime?

[A] $\frac{1}{5}$ [B] $\frac{1}{4}$ [C] $\frac{1}{3}$ [D] $\frac{1}{2}$

[60] _____

---

61. Express as a whole number: 2^5

[61] _____

---

62. If $2n = 4$**, then what does** n^2 **equal?**

[62] _____

---

63. Write 1,600,000 **in expanded notation using powers of 10.**

[63] _____

64. Which shows 2,900,000 in expanded notation using powers of 10? **[64]** _____

[A] $(9\times10^6)+(2\times10^5)$ [B] $(9\times10^6)+(2\times10^4)$

[C] $(2\times10^6)+(9\times10^4)$ [D] $(2\times10^6)+(9\times10^5)$

---

65. Find the value of each $\square$. $\frac{1}{6}=\frac{1\times4}{6\times4}=\frac{\square}{\square}$

[65] _____

---

66. Find the missing values: $\frac{3}{8}\times\frac{?}{?}=\frac{18}{48}$

[66] _____

---

67. Find a fraction equivalent to $\frac{1}{4}$ **with a denominator of** 16.

[67] _____

---

68. Find the value of each $\square$. $\frac{3}{7}=\frac{3\times2}{7\times2}=\frac{\square}{\square}$

[A] $\frac{7}{14}$ [B] $\frac{6}{15}$ [C] $\frac{7}{15}$ [D] $\frac{6}{14}$

[68] _____

Reduce:

69. $\frac{9}{12}$

[69] _____

Reduce:

70. $6\frac{4}{20}$

[70] _____

---

71. Solve. Reduce your answer: $6\frac{11}{14} - 2\frac{5}{14}$

[A] 62 [B] $9\frac{1}{7}$ [C] $4\frac{3}{7}$ [D] $\frac{7}{8}$

[71] _____

---

72. Find the greatest common factor of 48 and 8.

[72] _____

---

73. What is the greatest common factor of 20 and 30?

[73] _____

---

74. What is the greatest common factor of 40 and 8?

[74] _____

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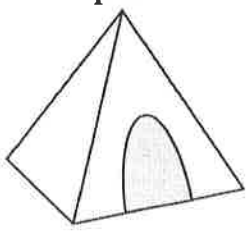
75. Name the shape of a tent.



[75] _____

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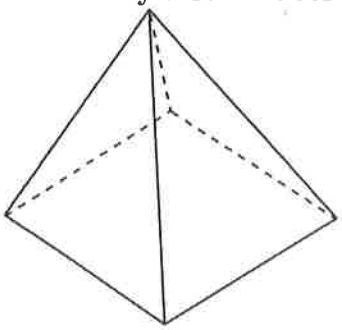
76. Name the geometric solid suggested by a filing cabinet.

[76] _____

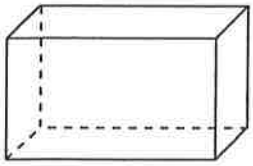
77. **How many vertices does the pyramid have?**



[77] _____

---

78. **How many vertices does the rectangular prism have?**



[A] 11 [B] 10 [C] 8 [D] 9

[78] _____

---

79. **Find the mean of the data set 82, 78, 89, 89, 80, 89, 89, and 84.**

[79] _____

---

80. **Tom's last nine golf scores on a par-72 course were 76, 75, 87, 84, 75, 75, 83, 88, and 86. Find the median of the set of data.**

[80] _____

---

81. **A high school English instructor returned graded essays to 8 students in a sophomore English class. The students had the following scores: 47, 42, 41, 71, 71, 71, 64, 51, and 47. Find the (a) range and (b) mode of this set of scores.**

[81] _____

82. A high school English instructor returned graded essays to 10 students in a sophomore English class. The students had the following scores: 52, 70, 71, 70, 62, 44, 73, 58, 70, 70, and 70. Find the (a) range and (b) mode of this set of scores.

[A] (a) 31
(b) 70

[B] (a) 29
(b) 70

[C] (a) 31
(b) 75

[D] (a) 29
(b) 75

[82] _____

Multiply:

83. $7 \times \frac{2}{9}$

[83] _____

---

84. $\frac{1}{7} \times 3$

[84] _____

---

85. What number is $\frac{1}{3}$ of 9?

[85] _____

---

86. Multiply: $\frac{1}{17} \times 5$

[A] $\frac{5}{17}$

[B] $\frac{1}{85}$

[C] $\frac{85}{5}$

[D] $\frac{5}{85}$

[86] _____

---

87. How many twelfths are in three fourths?

[87] _____

88. $\frac{1}{2} \div \frac{1}{12}$

[88] _____

---

89. $\frac{3}{4} \div \frac{1}{4}$

[89] _____

---

90. How many twelfths are in one third?

[A] 6 [B] 4 [C] 3 [D] 5

[90] _____

---

91. Reduce: $\frac{12}{54}$

[91] _____

Solve. Reduce your answer:

92. $\frac{4}{5} \times \frac{7}{10}$

[92] _____

---

93. $\frac{3}{6} + \frac{1}{6}$

[93] _____

Solve. Reduce your answer:

94. $\frac{1}{8} \times \frac{2}{9}$

[A] $\frac{1}{24}$ [B] $\frac{3}{17}$ [C] $\frac{1}{36}$ [D] $\frac{16}{9}$

[94] _____

Solve. Simplify your answer:

95. $6 \times \frac{1}{4}$

[95] _____

---

96. $2\frac{4}{6} + 3\frac{3}{6}$

[96] _____

---

97. Simplify: $\frac{10}{8}$

[97] _____

---

98. Solve. Simplify your answer: $6\frac{6}{12} + 8\frac{9}{12}$

[A] $15\frac{1}{4}$ [B] $16\frac{1}{3}$ [C] $16\frac{1}{4}$ [D] $15\frac{1}{3}$

[98] _____

Divide:

99. $42\overline{)896}$

[99] _____

Divide:

100. $18\overline{)216}$

[100] _____

---

101. $24\overline{)965}$

[101] _____

---

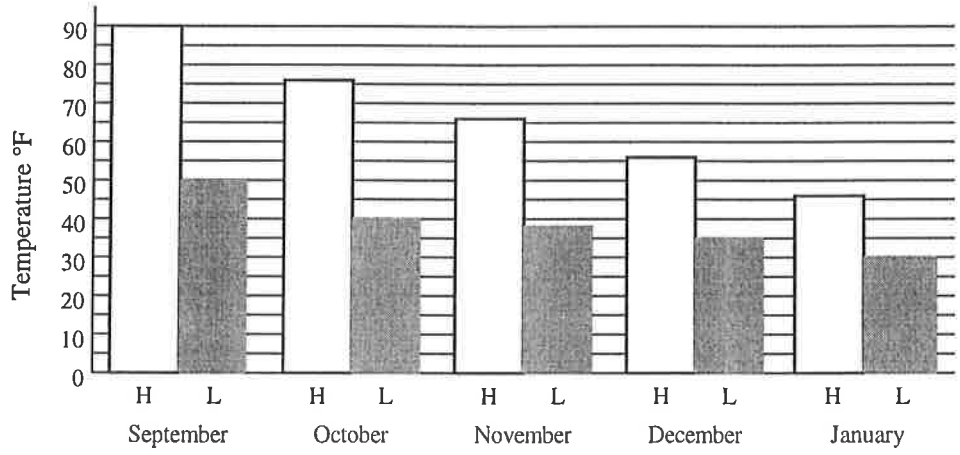
102. $23\overline{)444}$

[A] 19 R7 [B] 18 R8 [C] 26 [D] 7 R20

[102] _____

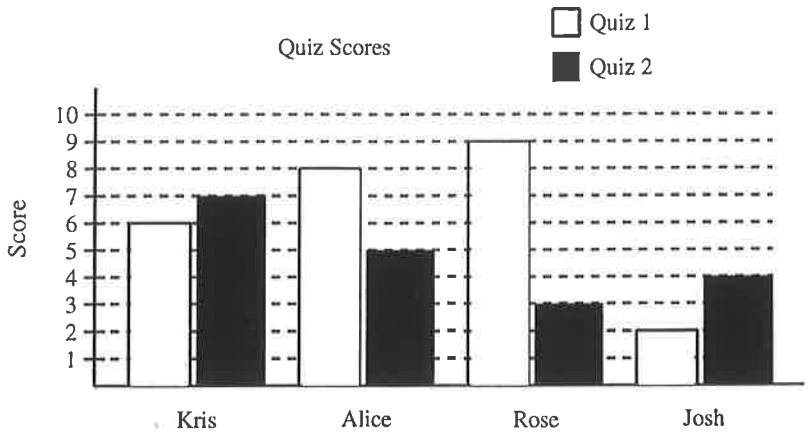
---

103. Ms. Schultz's class kept a record of the highest and lowest temperatures in each of five months. What was the lowest temperature recorded in the five months?



[103] _____

104. Kris, Alice, Rose, and Josh each take two quizzes. Each quiz has ten questions. The scores on the quizzes are shown in the table below.
(a) Who scores lowest on Quiz 1?
(b) Who scores highest on Quiz 2?



[A] (a) Kris
(b) Alice

[B] (a) Kris
(b) Kris

[C] (a) Josh
(b) Alice

[D] (a) Josh
(b) Kris

[104] _____

---

105. Divide: $1 \div \frac{8}{7}$

[105] _____

---

106. How many $\frac{3}{8}$**'s are in 1?**

[106] _____

---

107. Find the reciprocal of 3.

[107] _____

Divide:

108. $1 \div \frac{9}{5}$

[A] $\frac{1}{5}$ [B] $\frac{1}{9}$ [C] $\frac{5}{9}$ [D] 1

[108] _____

---

109. $4 \div \frac{1}{5}$

[109] _____

---

110. How many $\frac{1}{8}$'s are in $\frac{8}{9}$?

[110] _____

---

111. How many $\frac{3}{4}$'s are in $\frac{1}{3}$?

[111] _____

---

112. How many $\frac{2}{3}$'s are in $\frac{1}{2}$?

[A] $\frac{4}{3}$ [B] $\frac{1}{3}$ [C] 3 [D] $\frac{3}{4}$

[112] _____

---

113. Ms. Strauss fills gum and trinket machines in front of grocery stores. In the trinket machine, there are two types of trinkets—tattoos and rings. If Ms. Strauss puts 28 tattoos and 36 rings in a machine, what is the ratio of tattoos to all the trinkets in the machine?

[113] _____

114. **The Evergreen Warriors had a record of 45 wins and 35 losses. What was the ratio of wins to losses?**

[114] _____

---

115. **Sarah sold 10 tickets to the school play, and Maria sold 24 tickets. What is the ratio of the number of tickets Sarah sold to the number of tickets Maria sold?**

[115] _____

---

116. **Ms. Strauss fills gum and trinket machines in front of grocery stores. In the trinket machine, there are two types of trinkets—necklaces and rings. If Ms. Strauss puts 20 necklaces and 36 rings in a machine, what is the ratio of rings to all the trinkets in the machine?**

[A] $\frac{14}{9}$ [B] $\frac{9}{14}$ [C] $\frac{5}{9}$ [D] $\frac{9}{5}$

[116] _____

---

117. **Add:** $61 + 11.31 + 13.3$

[117] _____

---

118. **Subtract:** $36 - 2.3$

[118] _____

Add:

119. $7 + 29.15$

[119] _____

---

120. $15 + 11.34 + 13.4$

[A] 39.74 [B] 39.38 [C] 39.97 [D] 39.85

[120] _____

Subtract:

121. 8 – 0.36

[121] _____

---

122. 8.5 – 1

[122] _____

---

123. 0.7 – 0.22

[123] _____

---

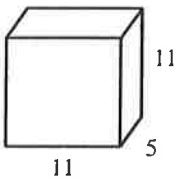
124. 0.5 – 0.27

[A] 0.73 [B] 0.21 [C] 0.23 [D] 0.31

[124] _____

---

125. Find the volume of the solid figure. Dimensions are in millimeters.



[125] _____

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126. Gary's closet is 4 feet wide, 4 feet deep, and 10 feet high. How many boxes that are 1-foot cubes could Gary fit into his closet?

[126] _____

---

127. Round 84.1 to the nearest whole number.

[127] _____

128. **Which of these numbers round to 30 when rounded to the nearest whole number?**
30.19 29.38 30.62 30.81
30.33 29.8 29.12 29.58

[128] _____

---

129. **Estimate the product:** 8.1×6.9

[129] _____

---

130. **What is 92.6 rounded to the nearest whole number?**

[A] 92 [B] 90 [C] 93 [D] 94

[130] _____

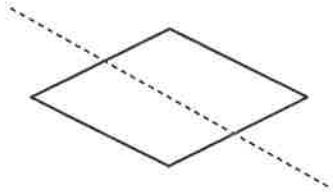
---

131. **Which letter has rotational symmetry?**
E O J R

[131] _____

---

132. **Is this line a line of symmetry?**



[132] _____

---

133. **Fitzroy answered 17 of 50 questions correctly. What percent of the questions did he answer correctly?**

[133] _____

---

134. **In a roll of 50 pennies, 16 were minted before 1982. What percent of the pennies in the roll were minted before 1982?**

[134] _____

135. The Patrini Paint Store gives a discount to 4 of every 10 shoppers. What percent of the shoppers receive a discount?

[135] _____

---

136. Lucretia answered 23 of 50 questions correctly. What percent of the questions did she answer correctly?

[A] 92% [B] 46% [C] 23% [D] 11.5%

[136] _____

---

137. Tom rode the train from Chicago to St. Louis. According to the schedule, from the time the train departs Chicago until the time it arrives in St. Louis is how many hours and minutes?

Station	Arrive	Depart
Chicago, IL		10:30 a.m.
Joliet, IL	11:35 a.m.	11:55 a.m.
Bloomington, IL	02:05 p.m.	02:35 p.m.
Springfield, IL	03:00 p.m.	03:55 p.m.
St. Louis, MO	05:40 p.m.	

[137] _____

---

138. The city park is sponsoring an all-comers track meet. The first event is scheduled to start at 11:00 a.m., and each event will take 25 minutes. If the track meet is running 5 minutes late and Sally is scheduled to run in the 400-meter race, what time will her event start? The original schedule is shown below.

Event	Start Time
100-meter race	11:00 a.m.
100-meter hurdles	11:25 a.m.
400-meter race	11:50 a.m.
800-meter race	12:15 p.m.

[138] _____

139. Ralph is sightseeing. He wants to take a trolley from Lakefront Park to the zoo. The trips start at 1:30 p.m. and take 25 minutes. Trolley departures occur every 20 minutes. Complete the table.

Trolley	Departs	Arrives
First	1:30 p.m.	
Second		
Third		
Fourth		

[139] _____

---

140. Hiro is sightseeing. He wants to take a trolley from Lakefront Park to the zoo. The trips start at 1:05 p.m. and take 25 minutes. Trolley departures occur every 10 minutes. Which of the following tables shows the correct departure and arrival times for the trolleys?

[A]

Trolley	Departs	Arrives
First	1:05 p.m.	1:30 p.m.
Second	1:15 p.m.	1:40 p.m.
Third	1:25 p.m.	1:50 p.m.
Fourth	1:35 p.m.	2:00 p.m.

[B]

Trolley	Departs	Arrives
First	1:05 p.m.	1:15 p.m.
Second	1:30 p.m.	1:40 p.m.
Third	1:55 p.m.	2:05 p.m.
Fourth	2:20 p.m.	2:30 p.m.

[C]

Trolley	Departs	Arrives
First	1:05 p.m.	1:15 p.m.
Second	1:15 p.m.	1:25 p.m.
Third	1:25 p.m.	1:35 p.m.
Fourth	1:35 p.m.	1:45 p.m.

[D]

Trolley	Departs	Arrives
First	1:05 p.m.	1:30 p.m.
Second	1:30 p.m.	1:55 p.m.
Third	1:55 p.m.	2:20 p.m.
Fourth	2:20 p.m.	2:45 p.m.

[140] _____

Multiply:

141. 0.4×0.71

[141] _____

---

142. $\begin{array}{r} 4.17 \\ \times \quad 3 \\ \hline \end{array}$

[142] _____

Multiply:

143. 0.5×0.23

[A] 11.5 [B] 1.15 [C] 0.115 [D] 0.0115

[143] _____

---

144. 0.2×0.23

[144] _____

---

145. $\begin{array}{r} 0.01 \\ \times\ 0.3 \\ \hline \end{array}$

[145] _____

---

146. 0.03×0.31

[A] 0.00093 [B] 0.0093 [C] 0.93 [D] 0.093

[146] _____

---

147. 0.066×100

[147] _____

---

148. 0.804×1000

[148] _____

---

149. 0.998×10

[A] 9.98 [B] 998 [C] 0.998 [D] 99.8

[149] _____

---

150. What is the least common multiple of 2 and 8?

[150] _____

151. List the first three common multiples of 4 and 5.

[151] _____

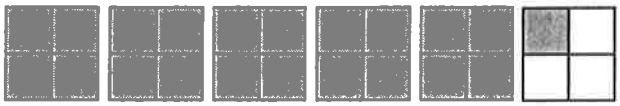
---

152. The denominators of $\frac{1}{6}$ and $\frac{7}{8}$ are 6 and 8. What is the least common multiple of 6 and 8?

[152] _____

---

153. Write an improper fraction and a mixed number for the shaded parts.



[153] _____

---

154. Write an improper fraction and a mixed number for the shaded parts.

[154] _____

---

155. What is the improper fraction for the mixed number $1\frac{2}{3}$?

[155] _____

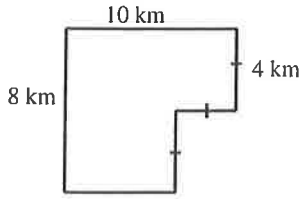
---

156. Which improper fraction and mixed number are represented by the shaded parts?

[A] $\frac{17}{4}$; $4\frac{1}{4}$ [B] $\frac{19}{4}$; $3\frac{3}{4}$ [C] $\frac{7}{2}$; $3\frac{1}{2}$ [D] $\frac{9}{2}$; 4

[156] _____

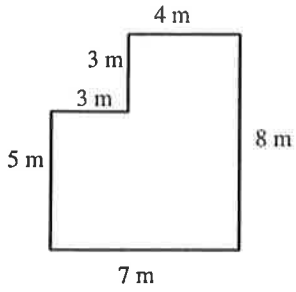
157. Two rectangles are joined to form a hexagon. Find the area of the hexagon.



[157] _____

---

158. Two rectangles are joined to form a hexagon. What is the area of the hexagon?



[A] 47 m^2 [B] 52 m^2 [C] 50 m^2 [D] 45 m^2

[158] _____

---

159. Subtract: $\frac{5}{7} - \frac{1}{14}$

[159] _____

Compare:

160. $\frac{28}{31} \bigcirc \frac{6}{27}$

[160] _____

---

161. $\frac{4}{29} \bigcirc \frac{3}{9}$ **[161]** _____

[A] < [B] > [C] =

Divide:

162. $5\overline{)2.5}$

[162] _____

---

163. $4.97 \div 7$

[163] _____

---

164. $6\overline{)0.3}$

[A] 5 [B] 50 [C] 0.05 [D] 5.1

[164] _____

---

165. $7\overline{)0.42}$

[165] _____

---

166. $4\overline{)0.0012}$

[166] _____

---

167. $6\overline{)0.0018}$

[A] 0.0003 [B] 0.03 [C] 0.3 [D] 0.003

[167] _____

---

168. $16.4 \div 100$

[168] _____

---

169. $100\overline{)179.25}$

[169] _____

Divide:

170. $46.83 \div 100$

[170] _____

---

171. $10\overline{)45.76}$

[A] 457.6 [B] 0.4576 [C] 4.576 [D] 0.04576

[171] _____

---

172. $0.8\overline{)3.04}$

[172] _____

---

173. $0.6\overline{)1.8}$

[173] _____

---

174. $1.1\overline{)0.55}$

[A] 5 [B] 0.05 [C] 0.005 [D] 0.5

[174] _____

---

175. Write the number represented by the Roman numeral DCCLXVII.

[175] _____

---

176. Write the number represented by the Roman numeral MDCIX.

[176] _____

---

177. Write the number represented by the Roman numeral MMCCCVI.

[177] _____

--END--

Answer Key

Post Saxon 6/5 Review

[1] **109**

[2] **208 R2**

[3] **38**

[4] 19 yr

[5] **4**

[6] [D]

[7] 100 yr

[8] 444 yr

[9] 191 yr

[10] [A]

[11] **equilateral**

[12] **acute**

[13] **isosceles, obtuse**

[14] [B]

[15] **16**

[16] 24 min

[17] **8, 7**

[18] [A]

[19] **1950**

[20] **40,572**

[21] **$54.34**

[22] **19,116**

[23] **$2.16**

[24] [C]

[25] **14**

[26] **$0.11**

[27] **48 R4**

[28] [A]

[29] **112,203**

[30] **43,966**

[31] [B]

[32] **499,329**

[33] **64,000**

[34] **$1404.20**

[35] [A]

[36] $2\frac{1}{3}$

[37] $1\frac{1}{4}$

[38] [D]

[39] 8 cm

[40] 1.31 m

[41] **Answers may vary. Sample answer: 2 m**

[42] [D]

[43] **two and two hundred fourteen thousandths**

[44] **56.033**

[45] **41.38**

[46] [C]

[47] $\frac{6}{10}; \frac{60}{100}$

[48] $\frac{69}{100}$; 0.69; 69%

[49] <

[50] [B]

[51] 54 m^2

[52] [B]

[53] **13.83**

Key (2)

[54] 2.62

[55] 39.77

[56] [A]

[57] $\frac{5}{63}$

[58] $\frac{49}{81}$

[59] $\frac{1}{20}$

[60] [D]

[61] 32

[62] 4

[63] $(1\times10^6)+(6\times10^5)$

[64] [D]

[65] $\frac{4}{24}$

[66] $\frac{6}{6}$

[67] $\frac{4}{16}$

[68] [D]

[69] $\frac{3}{4}$

[70] $6\frac{1}{5}$

[71] [C]

[72] 8

[73] 10

[74] 8

[75] pyramid

[76] rectangular solid

[77] 5

[78] [C]

[79] 85

[80] 83

[81] (a) 30
(b) 71

[82] [B]

[83] $1\frac{5}{9}$

[84] $\frac{3}{7}$

[85] 3

[86] [A]

[87] 9

[88] 6

[89] 3

[90] [B]

[91] $\frac{2}{9}$

[92] $\frac{14}{25}$

[93] $\frac{2}{3}$

[94] [C]

[95] $1\frac{1}{2}$

[96] $6\frac{1}{6}$

[97] $1\frac{1}{4}$

[98] [A]

[99] 21 R14

[100] 12

[101] 40 R5

[102] [A]

[103] 30° F

[104] [D]

[105] $\frac{7}{8}$

[106] $\frac{8}{3}$ or $2\frac{2}{3}$

[107] $\frac{1}{3}$

[108] [C]

[109] 20

[110] $7\frac{1}{9}$

[111] $\frac{4}{9}$

[112] [D]

[113] $\frac{7}{16}$

[114] $\frac{9}{7}$

[115] $\frac{5}{12}$

[116] [B]

[117] 85.61

[118] 33.7

Key (3)

[119] **36.15**

[120] [A]

[121] **7.64**

[122] **7.5**

[123] **0.48**

[124] [C]

[125] 605 mm^3

[126] 160

[127] **84**

[128] **30.19, 29.58, 30.33, 29.8**

[129] **56**

[130] [C]

[131] **O**

[132] **No**

[133] **34%**

[134] **32%**

[135] **40%**

[136] [B]

[137] 7 hr 10 min

[138] **11:55 a.m.**

[139]

Trolley	Departs	Arrives
First	1:30 p.m.	1:55 p.m.
Second	1:50 p.m.	2:15 p.m.
Third	2:10 p.m.	2:35 p.m.
Fourth	2:30 p.m.	2:55 p.m.

[140] [A]

[141] **0.284**

[142] **12.51**

[143] [C]

[144] **0.046**

[145] **0.003**

[146] [B]

[147] **6.6**

[148] **804**

[149] [A]

[150] **8**

[151] **20, 40, 60**

[152] **24**

[153] $\frac{21}{4}$; $5\frac{1}{4}$

[154] $\frac{37}{8}$; $4\frac{5}{8}$

[155] $\frac{5}{3}$

[156] [A]

[157] 64 km^2

[158] [A]

[159] $\frac{9}{14}$

[160] >

[161] [A]

[162] **0.5**

[163] **0.71**

[164] [C]

[165] **0.06**

[166] **0.0003**

[167] [A]

[168] **0.164**

[169] **1.7925**

[170] **0.4683**

[171] [C]

[172] **3.8**

[173] **3**

[174] [D]

[175] **767**

[176] **1609**

[177] **2306**

90.97 + ☐ = 176.86	☐ + 18.80 = 69.28	☐ + 34.90 = 119.2	☐ + 97.68 = 148.17
☐ + 99.49 = 141.54	☐ + 69.34 = 122.73	☐ + 97.89 = 138.13	☐ + 98.22 = 134.24

1)	2)	3)	4)	5)
☐ − 17.22 = 74.98	☐ − 59.88 = 18.55	☐ − 67.80 = 30.26	90.97 − ☐ = 5.08	☐ − 18.80 = 31.68

6)	7)	8)	9)	10)
84.30 − ☐ = 49.4	☐ − 12.45 = 30.38	91.48 − ☐ = 10.57	☐ − 76.83 = 4.30	87.40 − ☐ = 76.6

$$\begin{array}{r} 90.97 \\ +\ 85.89 \\ \hline 176.86 \end{array} \qquad \begin{array}{r} 50.48 \\ +\ 18.80 \\ \hline 69.28 \end{array} \qquad \begin{array}{r} 84.30 \\ +\ 34.90 \\ \hline 119.2 \end{array} \qquad \begin{array}{r} 50.49 \\ +\ 97.68 \\ \hline 148.17 \end{array}$$

$$\begin{array}{r} 42.05 \\ +\ 99.49 \\ \hline 141.54 \end{array} \qquad \begin{array}{r} 53.39 \\ +\ 69.34 \\ \hline 122.73 \end{array} \qquad \begin{array}{r} 40.24 \\ +\ 97.89 \\ \hline 138.13 \end{array} \qquad \begin{array}{r} 36.02 \\ +\ 98.22 \\ \hline 134.24 \end{array}$$

Answer Sheet

1) $\begin{array}{r} 92.20 \\ -\ 17.22 \\ \hline 74.98 \end{array}$ 2) $\begin{array}{r} 78.43 \\ -\ 59.88 \\ \hline 18.55 \end{array}$ 3) $\begin{array}{r} 98.06 \\ -\ 67.80 \\ \hline 30.26 \end{array}$ 4) $\begin{array}{r} 90.97 \\ -\ 85.89 \\ \hline 5.08 \end{array}$ 5) $\begin{array}{r} 50.48 \\ -\ 18.80 \\ \hline 31.68 \end{array}$

6) $\begin{array}{r} 84.30 \\ -\ 34.90 \\ \hline 49.4 \end{array}$ 7) $\begin{array}{r} 42.83 \\ -\ 12.45 \\ \hline 30.38 \end{array}$ 8) $\begin{array}{r} 91.48 \\ -\ 80.91 \\ \hline 10.57 \end{array}$ 9) $\begin{array}{r} 81.13 \\ -\ 76.83 \\ \hline 4.30 \end{array}$ 10) $\begin{array}{r} 87.40 \\ -\ 10.80 \\ \hline 76.6 \end{array}$

38 × 55	43 × 26	28 × 63	45 × 63
80 × 46	86 × 47	83 × 21	69 × 93
86 × 49	96 × 38	61 × 50	85 × 42
76 × 24	24 × 28	64 × 99	61 × 92

38 × 55 = 2090	43 × 26 = 1118	28 × 63 = 1764	45 × 63 = 2835
190 + 1900	258 + 860	84 + 1680	135 + 2700
80 × 46 = 3680	86 × 47 = 4042	83 × 21 = 1743	69 × 93 = 6417
480 + 3200	602 + 3440	83 + 1660	207 + 6210
86 × 49 = 4214	96 × 38 = 3648	61 × 50 = 3050	85 × 42 = 3570
774 + 3440	768 + 2880		170 + 3400
76 × 24 = 1824	24 × 28 = 672	64 × 99 = 6336	61 × 92 = 5612
304 + 1520	192 + 480	576 + 5760	122 + 5490

$5\overline{)282}$ $5\overline{)103}$ $4\overline{)303}$

$9\overline{)768}$ $6\overline{)331}$ $2\overline{)91}$

1) $\begin{array}{r} 16.67 \\ \times\ 20.30 \\ \hline \end{array}$ 2) $\begin{array}{r} 11.16 \\ \times\ 77.86 \\ \hline \end{array}$ 3) $\begin{array}{r} 6.66 \\ \times\ 48.33 \\ \hline \end{array}$ 4) $\begin{array}{r} 92.20 \\ \times\ 17.22 \\ \hline \end{array}$

5) $\begin{array}{r} 16.22 \\ \times\ 38.41 \\ \hline \end{array}$ 6) $\begin{array}{r} 56.79 \\ \times\ 91.22 \\ \hline \end{array}$ 7) $\begin{array}{r} 49.86 \\ \times\ 51.01 \\ \hline \end{array}$ 8) $\begin{array}{r} 78.43 \\ \times\ 59.88 \\ \hline \end{array}$

$$\begin{array}{r} 56\text{r}2 \\ 5\overline{)282} \\ 25 \\ \hline 32 \\ 30 \\ \hline 2 \end{array} \qquad \begin{array}{r} 20\text{r}3 \\ 5\overline{)103} \\ 10 \\ \hline 03 \\ 0 \\ \hline 3 \end{array} \qquad \begin{array}{r} 75\text{r}3 \\ 4\overline{)303} \\ 28 \\ \hline 23 \\ 20 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 85\text{r}3 \\ 9\overline{)768} \\ 72 \\ \hline 48 \\ 45 \\ \hline 3 \end{array} \qquad \begin{array}{r} 55\text{r}1 \\ 6\overline{)331} \\ 30 \\ \hline 31 \\ 30 \\ \hline 1 \end{array} \qquad \begin{array}{r} 45\text{r}1 \\ 2\overline{)91} \\ 8 \\ \hline 11 \\ 10 \\ \hline 1 \end{array}$$

Answer Sheet

1) $16.67 \times 20.30 = 338.401$

2) $11.16 \times 77.86 = 868.9176$

3) $6.66 \times 48.33 = 321.8778$

4) $92.20 \times 17.22 = 1587.684$

5) $16.22 \times 38.41 = 623.0102$

6) $56.79 \times 91.22 = 5180.3838$

7) $49.86 \times 51.01 = 2543.3586$

8) $78.43 \times 59.88 = 4696.3884$

Name Date Period

Workbook Activity
Chapter 1, Lesson 5
8

Multiplication by Powers of Ten

EXAMPLES

When you multiply a number by 10, write the number. Then write a zero at the end. $235 \times 10 = 2{,}350$

When you multiply a number by 100, write the number. Then write two zeros at the end. $235 \times 100 = 23{,}500$

When you multiply a number by 1,000, write the number. Then write three zeros at the end. $235 \times 1{,}000 = 235{,}000$

Directions Multiply by these powers of ten.

1. $325 \times 10 =$ _____

2. $421 \times 100 =$ _____

3. $4{,}631 \times 10 =$ _____

4. $6{,}023 \times 100 =$ _____

5. $702 \times 100 =$ _____

6. $3{,}011 \times 1{,}000 =$ _____

21. $412 \times 1{,}000 =$ _____

22. $906 \times 1{,}000 =$ _____

23. $10{,}802 \times 100 =$ _____

24. $104 \times 100 =$ _____

25. $56 \times 10 =$ _____

26. $13 \times 100 =$ _____

Name Date Period

Workbook Activity
Chapter 1, Lesson 5
9

Multiplication of Whole Numbers

EXAMPLE

Write the problem in vertical form. Multiply.

$52 \times 42 =$ 2,184

$$\begin{array}{r} 52 \\ \times\ 42 \\ \hline 104 \\ +\ 208 \\ \hline 2{,}184 \end{array}$$

Directions Rewrite these multiplication problems in the vertical form and multiply.

1. $24 \times 22 =$ _____

2. $61 \times 18 =$ _____

3. $201 \times 43 =$ _____

4. $85 \times 72 =$ _____

5. $712 \times 66 =$ _____

15. $920 \times 724 =$ _____

16. $856 \times 326 =$ _____

17. $3{,}021 \times 307 =$ _____

18. $638 \times 800 =$ _____

19. $4{,}160 \times 110 =$ _____

Name Date Period

Workbook Activity
Chapter 1, Lesson 6
10

Division of Whole Numbers

EXAMPLE Write the problem in standard form. Divide.

168 ÷ 6 = 28

$$\begin{array}{r} 28 \\ 6\overline{)168} \\ -\ 12 \\ \hline 48 \\ -\ 48 \\ \hline 0 \end{array}$$

Directions Rewrite the following division problems in the standard form and divide.

1. 128 ÷ 4 = _____

2. 477 ÷ 9 = _____

3. 266 ÷ 7 = _____

4. 480 ÷ 5 = _____

15. 3,036 ÷ 6 = _____

16. 8,844 ÷ 11 = _____

17. 6,030 ÷ 3 = _____

18. 5,400 ÷ 6 = _____

Name Date Period

Workbook Activity
Chapter 1, Lesson 6
12

Dividing Numbers by Powers of Ten

EXAMPLE Write the problem in standard form and divide.

480 ÷ 10 =

$$\begin{array}{r} 48 \\ 10\overline{)480} \\ -\ 40 \\ \hline 80 \\ -\ 80 \\ \hline 0 \end{array}$$

Or move the decimal point one place to the left for each zero in the divisor.

48.0 ÷ 10 =

Directions Divide by these powers of ten.

1. 840 ÷ 10 = _____

2. 65,000 ÷ 100 = _____

3. 2,000 ÷ 100 = _____

4. 4,630 ÷ 10 = _____

5. 9,600 ÷ 100 = _____

6. 140,000 ÷ 1,000 = _____

7. 191,000 ÷ 10 = _____

8. 920,000 ÷ 100 = _____

21. 451,000 ÷ 1,000 = _____

22. 390,000 ÷ 10 = _____

23. 680,000 ÷ 100 = _____

24. 4,060,300 ÷ 10 = _____

25. 19,600 ÷ 10 = _____

26. 9,603,000 ÷ 1,000 = _____

27. 5,000,000 ÷ 100 = _____

28. 7,000,000 ÷ 10 = _____

Name _____ Date _____ Period _____

Workbook Activity
Chapter 1, Lesson 8
15

Exponents

EXAMPLE Read the number. Change the number into a problem and write the amount.

$2^3 = 2 \times 2 \times 2 =$ 8

Directions Express the following without exponents.

1. $3^2 =$	_____	**21.** $20^3 =$	_____	**41.** $4^5 =$	_____
2. $4^2 =$	_____	**22.** $3^2 =$	_____	**42.** $21^2 =$	_____
3. $5^3 =$	_____	**23.** $5^4 =$	_____	**43.** $3^3 =$	_____
4. $4^3 =$	_____	**24.** $12^2 =$	_____	**44.** $10^6 =$	_____
5. $6^2 =$	_____	**25.** $10^3 =$	_____	**45.** $23^2 =$	_____
6. $10^2 =$	_____	**26.** $3^5 =$	_____	**46.** $14^2 =$	_____
7. $8^2 =$	_____	**27.** $22^3 =$	_____	**47.** $50^2 =$	_____
8. $2^5 =$	_____	**28.** $17^2 =$	_____	**48.** $100^2 =$	_____

Name _____ Date _____ Period _____

Workbook Activity
Chapter 1, Lesson 9
16

Order of Operations

EXAMPLE Follow the order of operations. $2 + 4 \times 2 =$ _____

$2 + 8 =$ 10

Directions Find the answers. Perform the operations in the correct order.

1. $3 + 5 \times 6 =$	_____	**21.** $8 \times 6 \div 4 - 12 \div 6 =$	_____
2. $3 \times 4 + 6 - 4 =$	_____	**22.** $2^3 \times 3 \div 6 + 12 - 3 =$	_____
3. $4 \times 8 + 16 \div 2 =$	_____	**23.** $45 \div 15 + 10 - 2^3 =$	_____
4. $5 \times 2 - 6 \div 2 =$	_____	**24.** $15 \div 3 - 5 + 10^2 =$	_____
5. $4^2 \times 2 + 5 - 32 =$	_____	**25.** $12^2 \div 6 - 20 + 7 =$	_____
6. $3 \times 2 \times 2^3 - 4^2 =$	_____	**26.** $8^2 + 9 \times 3 - 10 =$	_____
7. $7 + 6 \times 2 - 2 + 2^3 =$	_____	**27.** $18 \div 3^2 - 2 + 5^2 =$	_____

Name Date Period

Workbook Activity
Chapter 2, Lesson 1
17

Factors

EXAMPLE

Factor the number.

F_{15} 1×15
3×5

Choose the correct factors.

a. 1, 5, 10, 15
b. 1, 2, 3, 5
c. 1, 3, 5, 15
d. 1, 3, 6, 12

Directions Circle the answer that has the correct factors.

1. 24
- **a.** 1, 2, 4, 6, 8, 12, 14
- **b.** 1, 2, 4, 10, 12, 24
- **c.** 1, 2, 3, 4, 6, 8, 12, 24
- **d.** 2, 4, 6, 8, 10, 12, 24

2. 16
- **a.** 1, 4, 8, 16
- **b.** 1, 2, 4, 16
- **c.** 1, 2, 4, 8, 16
- **d.** 1, 2, 4, 8, 16, 32

3. 32
- **a.** 1, 2, 8, 16, 32
- **b.** 1, 2, 8, 16, 32, 64
- **c.** 1, 2, 4, 8, 16, 32
- **d.** 2, 4, 6, 8, 10, 32

4. 8
- **a.** 2, 4, 8
- **b.** 1, 2, 4, 8
- **c.** 1, 2, 4, 8, 16
- **d.** 1, 2, 4, 8, 12, 24

5. 10
- **a.** 2, 5
- **b.** 1, 2, 5, 10
- **c.** 1, 2, 5, 10, 20
- **d.** 1, 2, 5

6. 52
- **a.** 1, 12, 24, 26, 30, 52
- **b.** 26, 52
- **c.** 1, 2, 4, 13, 26, 52
- **d.** 1, 13, 15, 52

7. 14
- **a.** 2, 7, 11, 14
- **b.** 1, 2, 7, 14, 28
- **c.** 2, 4, 7, 14
- **d.** 1, 2, 7, 14

8. 42
- **a.** 1, 6, 7, 12, 21, 42
- **b.** 1, 2, 3, 6, 7, 14, 21, 42
- **c.** 1, 6, 12, 42
- **d.** 1, 2, 4, 12, 21, 42

9. 13
- **a.** 1, 7, 13
- **b.** 1, 13
- **c.** 1, 7, 13, 26
- **d.** 1, 2, 13, 19

10. 26
- **a.** 1, 2, 20, 26
- **b.** 1, 13, 26
- **c.** 1, 2, 13, 26
- **d.** 1, 26

11. 36
- **a.** 2, 3, 4, 6, 8, 12, 24
- **b.** 1, 2, 3, 4, 6, 9, 12, 18, 36
- **c.** 1, 2, 4, 6, 8, 12, 36
- **d.** 1, 3, 4, 6, 8, 12, 36

12. 12
- **a.** 2, 3, 4, 6, 12
- **b.** 3, 4, 6, 12, 24
- **c.** 2, 4, 6, 24
- **d.** 1, 2, 3, 4, 6, 12

13. 18
- **a.** 1, 2, 3, 6, 9, 18
- **b.** 1, 2, 3, 6, 9, 18, 32
- **c.** 1, 2, 3, 6, 9, 18, 36
- **d.** 1, 2, 3, 4, 6, 7, 18

14. 20
- **a.** 2, 20
- **b.** 2, 5, 10, 15, 20
- **c.** 1, 2, 5, 10, 15, 20
- **d.** 1, 2, 4, 5, 10, 20

15. 22
- **a.** 1, 11, 22
- **b.** 1, 11, 22, 44
- **c.** 1, 2, 11, 22
- **d.** 1, 22, 44

Name Date Period

Workbook Activity
Chapter 2, Lesson 3
19

Prime and Composite Numbers

EXAMPLE Identify all the factors of a number. $F_9 = 1, 3, 9$

Tell whether the number is a prime or composite number.

9 has three factors, so it is a composite number.

Directions Write *prime* or *composite* for each number given.

1. 23 _____

2. 25 _____

3. 45 _____

4. 19 _____

5. 84 _____

6. 29 _____

7. 73 _____

8. 37 _____

9. 55 _____

10. 78 _____

11. 15 _____

12. 220 _____

13. 110 _____

14. 6 _____

15. 120 _____

Name Date Period

Workbook Activity
Chapter 3, Lesson 2
28

Working with Fractions

EXAMPLE Divide to find out how many times one denominator goes into the other.
Multiply the numerator by the quotient.

$\frac{2}{5} = \frac{}{25}$ Divide 25 by 5. $25 \div 5 = 5$

$\frac{2}{5} \times \frac{5}{5} = \frac{10}{25}$

$\frac{2}{5} = \frac{10}{25}$

Directions Express these fractions in higher terms.

1. $\frac{3}{5} = \frac{}{50}$

2. $\frac{1}{3} = \frac{}{18}$

3. $\frac{5}{6} = \frac{}{24}$

4. $\frac{7}{8} = \frac{}{32}$

5. $\frac{7}{8} = \frac{}{56}$

6. $\frac{3}{7} = \frac{}{21}$

7. $\frac{2}{9} = \frac{}{36}$

8. $\frac{1}{5} = \frac{}{30}$

9. $\frac{1}{4} = \frac{}{20}$

10. $\frac{5}{11} = \frac{}{121}$

11. $\frac{4}{9} = \frac{}{72}$

12. $\frac{3}{11} = \frac{}{44}$

13. $\frac{2}{3} = \frac{}{18}$

14. $\frac{7}{10} = \frac{}{80}$

15. $\frac{3}{4} = \frac{}{16}$

Name Date Period

Workbook Activity
Chapter 3, Lesson 4
30

Mixed Numbers

EXAMPLE Rename $1\frac{2}{3}$ as an improper fraction $3 \times 1 = 3$ $3 + 2 = 5$ $1\frac{2}{3} = \frac{5}{3}$

Multiply the whole number by the denominator. Then, add the numerator.
Write the new numerator over the same denominator.

Directions Rename these mixed numbers as improper fractions.

1. $2\frac{1}{6} =$ _____

2. $1\frac{1}{2} =$ _____

3. $2\frac{1}{5} =$ _____

4. $1\frac{5}{6} =$ _____

5. $4\frac{1}{5} =$ _____

6. $3\frac{2}{5} =$ _____

7. $1\frac{1}{6} =$ _____

8. $9\frac{2}{7} =$ _____

9. $4\frac{3}{4} =$ _____

10. $2\frac{5}{11} =$ _____

11. $1\frac{5}{9} =$ _____

12. $13\frac{2}{7} =$ _____

13. $20\frac{1}{2} =$ _____

14. $6\frac{2}{9} =$ _____

15. $3\frac{4}{7} =$ _____

Name Date Period

Workbook Activity
Chapter 3, Lesson 5
31

Renaming Improper Fractions

EXAMPLE Express the improper fractions as mixed numbers.
Divide the numerator by the denominator.
Simplify if necessary.

$\frac{78}{9}$

$$\begin{array}{r} 8 \\ 9\overline{)78} \\ -\,72 \\ \hline 6 \end{array}$$

remainder is 6

Solution: $8\frac{6}{9}$ or $8\frac{2}{3}$

Directions Rename the improper fractions as mixed numbers.
Simplify if necessary.

1. $\frac{15}{7} =$ _____

2. $\frac{29}{6} =$ _____

3. $\frac{51}{30} =$ _____

9. $\frac{57}{8} =$ _____

10. $\frac{53}{23} =$ _____

11. $\frac{77}{10} =$ _____

17. $\frac{18}{11} =$ _____

18. $\frac{72}{18} =$ _____

19. $\frac{71}{14} =$ _____

25. $\frac{53}{10} =$ _____

26. $\frac{34}{12} =$ _____

27. $\frac{63}{8} =$ _____

Name Date Period

Workbook Activity
Chapter 3, Lesson 9
35

Dividing Fractions

EXAMPLE Invert the divisor. Multiply. Simplify if necessary.

$\frac{2}{5} \div \frac{3}{7} =$

$\frac{2}{5} \times \frac{7}{3} = \frac{14}{15}$

Directions Divide these fractions. Remember to invert the divisor. Show your work. See the example.

1. $\frac{3}{10} \div \frac{4}{5} =$

2. $\frac{13}{12} \div \frac{15}{18} =$

3. $\frac{5}{9} \div \frac{8}{12} =$

4. $\frac{7}{5} \div \frac{10}{15} =$

5. $\frac{4}{12} \div \frac{6}{8} =$

6. $\frac{8}{9} \div \frac{6}{7} =$

7. $\frac{5}{12} \div \frac{7}{8} =$

8. $\frac{7}{10} \div \frac{10}{15} =$

9. $\frac{2}{7} \div \frac{7}{8} =$

10. $\frac{1}{7} \div \frac{3}{14} =$

11. $\frac{9}{14} \div \frac{18}{21} =$

12. $\frac{12}{14} \div \frac{6}{7} =$

13. $\frac{8}{9} \div \frac{6}{9} =$

14. $\frac{6}{7} \div \frac{2}{9} =$

15. $\frac{4}{5} \div \frac{16}{20} =$

16. $\frac{1}{6} \div \frac{5}{12} =$

17. $\frac{1}{5} \div \frac{3}{5} =$

18. $\frac{14}{15} \div \frac{14}{15} =$

19. $\frac{3}{7} \div \frac{9}{10} =$

20. $\frac{14}{16} \div \frac{15}{20} =$

Answers KEY

Workbook Activity 8—Multiplication by Powers of Ten

1. 3,250 2. 42,100 3. 46,310 4. 602,300 5. 70,200 6. 3,011,000
21. 412,000
22. 906,000 23. 1,080,200 24. 10,400 25. 560 26. 1,300

Workbook Activity 9—Multiplication of Whole Numbers

1. 528 2. 1,098 3. 8,643 4. 6,120 5. 46,992 15. 666,080 16. 279,056 17. 927,447
18. 510,400 19. 457,600

Workbook Activity 10—Division of Whole Numbers

1. 32 2. 53 3. 38 4. 96

15. 506 16. 804 17. 2,010 18. 900

Workbook Activity 19—Prime and Composite Numbers

1. prime 2. composite 3. composite 4. prime 5. composite
6. prime 7. prime 8. prime 9. composite 10. composite
11. composite 12. composite 13. composite 14. composite
15. composite

Workbook Activity 12—Dividing Numbers by Powers of Ten

1. 84 2. 650 3. 20 4. 463 5. 96 6. 140 7. 19,100 8. 9,200
21. 451
22. 39,000 23. 6,800 24. 406,030 25. 1,960 26. 9,603 27. 50,000
28. 700,000

Workbook Activity 28—Working with Fractions

1. 30 2. 6 3. 20 4. 28 5. 49 6. 9 7. 8 8. 6 9. 5 10. 55 11. 32
12. 12 13. 12 14. 56 15. 12

Workbook Activity 30—Mixed Numbers

1. $\frac{13}{6}$ 2. $\frac{3}{2}$ 3. $\frac{11}{5}$ 4. $\frac{11}{6}$ 5. $\frac{21}{5}$ 6. $\frac{17}{5}$ 7. $\frac{7}{6}$ 8. $\frac{65}{7}$ 9. $\frac{19}{4}$ 10. $\frac{27}{11}$ 11. $\frac{14}{9}$
12. $\frac{93}{7}$ 13. $\frac{41}{2}$ 14. $\frac{56}{9}$ 15. $\frac{25}{7}$

Workbook Activity 15—Exponents

1. 9 2. 16 3. 125 4. 64 5. 36 6. 100 7. 64 8. 32

21. 8,000 22. 9 23. 625 24. 144

25. 1,000 26. 243 27. 10,648 28. 289

41. 1,024 42. 441 43. 27 44. 1,000,000
45. 529 46. 196 47. 2,500 48. 10,000

Workbook Activity 31—Renaming Improper Fractions

1. $2\frac{1}{7}$ 2. $4\frac{5}{6}$ 3. $1\frac{7}{10}$

9. $7\frac{1}{8}$ 10. $2\frac{7}{23}$ 11. $7\frac{7}{10}$

17. $1\frac{7}{11}$ 18. 4 19. $5\frac{1}{14}$

25. $5\frac{3}{10}$ 26. $2\frac{5}{6}$ 27. $7\frac{7}{8}$

Workbook Activity 16—Order of Operations

1. 33 2. 14 3. 40 4. 7 5. 5 6. 32 7. 25

21. 10 22. 13 23. 5 24. 100 25. 11 26. 81 27. 25

Workbook Activity 35—Dividing Fractions

1. $\frac{3}{10} \times \frac{5}{4} = \frac{15}{40} = \frac{3}{8}$ 2. $\frac{13}{12} \times \frac{18}{15} = \frac{234}{180} = \frac{13}{10}$ 3. $\frac{5}{9} \times \frac{12}{8} = \frac{60}{72} = \frac{5}{6}$
4. $\frac{7}{5} \times \frac{15}{10} = \frac{105}{50} = \frac{21}{10}$ 5. $\frac{4}{12} \times \frac{8}{6} = \frac{32}{72} = \frac{4}{9}$ 6. $\frac{8}{9} \times \frac{7}{6} = \frac{56}{54} = \frac{28}{27}$
7. $\frac{5}{12} \times \frac{8}{7} = \frac{40}{84} = \frac{10}{21}$ 8. $\frac{7}{10} \times \frac{15}{10} = \frac{105}{100} = \frac{21}{20}$ 9. $\frac{2}{7} \times \frac{8}{7} = \frac{16}{49}$ 10. $\frac{1}{7} \times \frac{14}{3} = \frac{14}{21} = \frac{2}{3}$ 11. $\frac{9}{14} \times \frac{21}{18} = \frac{189}{252} = \frac{3}{4}$ 12. $\frac{12}{14} \times \frac{7}{6} = \frac{84}{84} = 1$
13. $\frac{8}{9} \times \frac{9}{6} = \frac{72}{54} = \frac{4}{3}$ 14. $\frac{6}{7} \times \frac{9}{2} = \frac{54}{14} = \frac{27}{7}$ 15. $\frac{4}{5} \times \frac{20}{16} = \frac{80}{80} = 1$
16. $\frac{1}{6} \times \frac{12}{5} = \frac{12}{30} = \frac{2}{5}$ 17. $\frac{1}{5} \times \frac{5}{3} = \frac{5}{15} = \frac{1}{3}$ 18. $\frac{14}{15} \times \frac{15}{14} = \frac{210}{210} = 1$
19. $\frac{3}{7} \times \frac{10}{9} = \frac{30}{63} = \frac{10}{21}$ 20. $\frac{14}{16} \times \frac{20}{15} = \frac{280}{240} = \frac{7}{6}$

Workbook Activity 17—Factors

1. c 2. c 3. c 4. b 5. b 6. c 7. d 8. b 9. b 10. c 11. b 12. d
13. a 14. d 15. c

22 Coordinate Plane

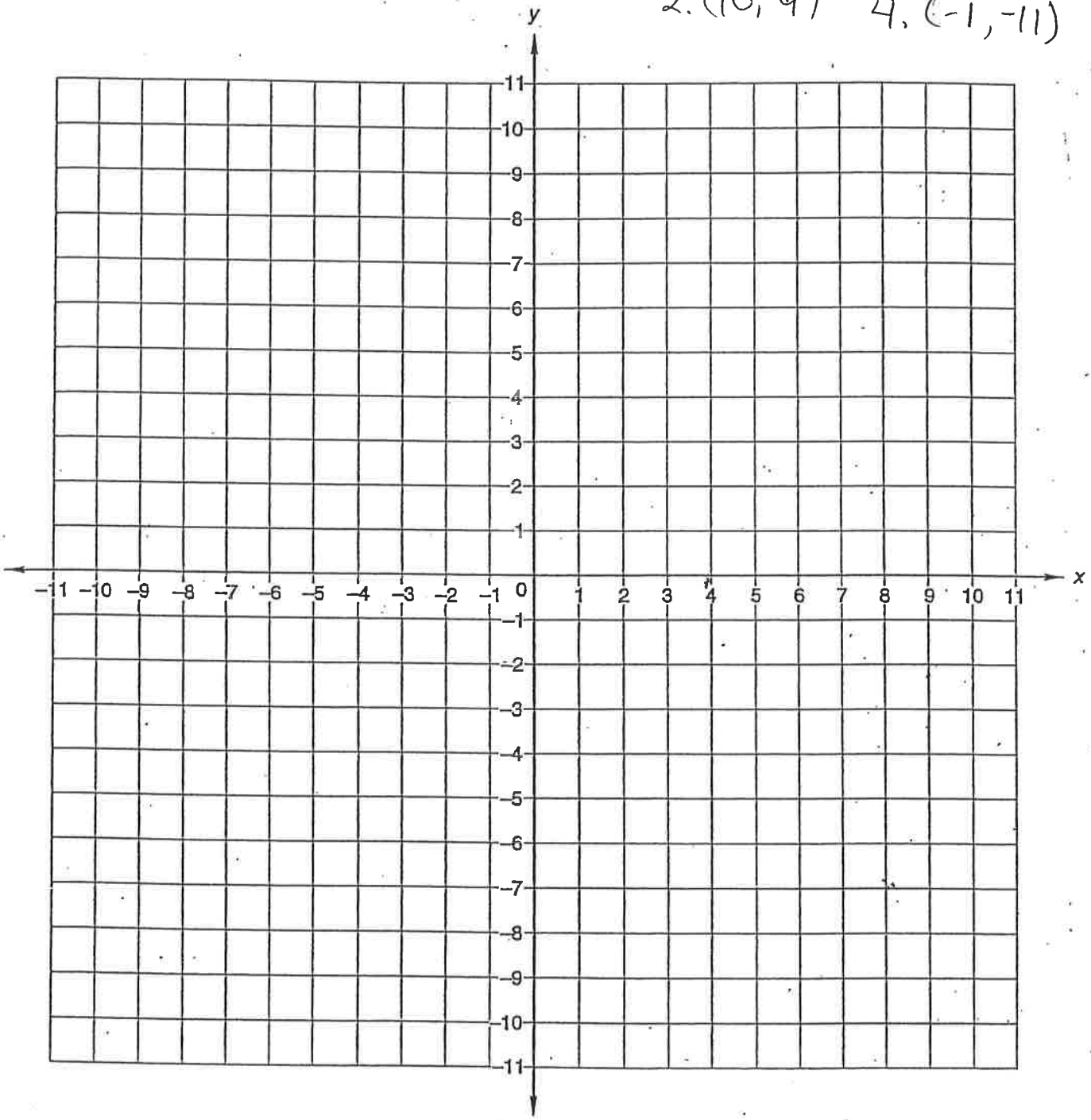
For use with Investigation 10

Name _____

Practice co-ordinates:

★ (x, y)

1. (4, −7)
2. (10, 9)
3. (−8, 6)
4. (−1, −11)



* make up some or design shapes

FACTS PRACTICE TEST

A

100 Addition Facts

Name _____

Time _____

Add.

3 + 2	8 + 3	2 + 1	5 + 6	2 + 9	4 + 8	8 + 0	3 + 9	1 + 0	6 + 3
7 + 3	1 + 6	4 + 7	0 + 3	6 + 4	5 + 5	3 + 1	7 + 2	8 + 5	2 + 5
4 + 0	5 + 7	1 + 1	5 + 4	2 + 8	7 + 1	4 + 6	0 + 2	6 + 5	4 + 9
8 + 6	0 + 4	5 + 8	7 + 4	1 + 7	6 + 6	4 + 1	8 + 2	2 + 4	6 + 0
9 + 1	8 + 8	2 + 2	4 + 5	6 + 2	0 + 0	5 + 9	3 + 3	8 + 1	2 + 7
4 + 4	7 + 5	0 + 1	8 + 7	3 + 4	7 + 9	1 + 2	6 + 7	0 + 8	9 + 2
0 + 9	8 + 9	7 + 6	1 + 3	6 + 8	2 + 0	8 + 4	3 + 5	9 + 8	5 + 0
9 + 3	2 + 6	3 + 0	6 + 1	3 + 6	5 + 2	0 + 5	6 + 9	1 + 8	9 + 6
4 + 3	9 + 9	0 + 7	9 + 4	7 + 7	1 + 4	3 + 7	7 + 0	2 + 3	5 + 1
9 + 5	1 + 5	9 + 0	3 + 8	1 + 9	5 + 3	4 + 2	9 + 7	0 + 6	7 + 8

FACTS PRACTICE TEST

B

100 Subtraction Facts

Name _____

Time _____

Subtract.

16 − 9	7 − 1	18 − 9	11 − 3	13 − 7	8 − 2	11 − 5	5 − 0	17 − 9	6 − 1
10 − 9	6 − 2	13 − 4	4 − 0	10 − 5	5 − 1	10 − 3	12 − 6	10 − 1	6 − 4
7 − 2	14 − 7	8 − 1	11 − 6	3 − 3	16 − 7	5 − 2	12 − 4	3 − 0	11 − 7
17 − 8	6 − 0	10 − 6	4 − 1	9 − 5	9 − 0	5 − 4	12 − 5	4 − 2	9 − 3
12 − 3	16 − 8	9 − 1	15 − 6	11 − 4	13 − 5	1 − 0	8 − 5	9 − 6	11 − 2
7 − 0	10 − 8	6 − 3	14 − 5	3 − 1	8 − 6	4 − 4	11 − 8	3 − 2	15 − 9
13 − 8	7 − 4	10 − 7	0 − 0	12 − 8	5 − 5	4 − 3	8 − 7	7 − 3	7 − 6
5 − 3	7 − 5	2 − 1	6 − 6	8 − 4	2 − 2	13 − 6	15 − 8	2 − 0	13 − 9
1 − 1	11 − 9	10 − 4	9 − 2	14 − 6	8 − 0	9 − 4	10 − 2	6 − 5	8 − 3
7 − 7	14 − 8	12 − 9	9 − 8	12 − 7	9 − 9	15 − 7	8 − 8	14 − 9	9 − 7

FACTS PRACTICE TEST

C

100 Multiplication Facts

Name _____

Time _____

Multiply.

9 × 9	3 × 5	8 × 5	2 × 6	4 × 7	0 × 3	7 × 2	1 × 5	7 × 8	4 × 0
3 × 4	5 × 9	0 × 2	7 × 3	4 × 1	2 × 7	6 × 3	5 × 4	1 × 0	9 × 2
1 × 1	9 × 0	2 × 8	6 × 4	0 × 7	8 × 1	3 × 3	4 × 8	9 × 3	2 × 0
4 × 9	7 × 0	1 × 2	8 × 4	6 × 5	2 × 9	9 × 4	0 × 1	7 × 4	5 × 8
0 × 8	4 × 2	9 × 8	3 × 6	5 × 5	1 × 6	5 × 0	6 × 6	2 × 1	7 × 9
9 × 1	2 × 2	5 × 1	4 × 3	0 × 0	8 × 9	3 × 7	9 × 7	1 × 7	6 × 0
5 × 6	7 × 5	3 × 0	8 × 8	1 × 3	8 × 3	5 × 2	0 × 4	9 × 5	6 × 7
2 × 3	8 × 6	0 × 5	6 × 1	3 × 8	7 × 6	1 × 8	9 × 6	4 × 4	5 × 3
7 × 7	1 × 4	6 × 2	4 × 5	2 × 4	8 × 0	3 × 1	6 × 8	0 × 9	8 × 7
3 × 2	4 × 6	1 × 9	5 × 7	8 × 2	0 × 6	7 × 1	2 × 5	6 × 9	3 × 9

FACTS PRACTICE TEST

D

90 Division Facts

Name _____

Time _____

Divide.

$7\overline{)21}$	$2\overline{)10}$	$6\overline{)42}$	$1\overline{)3}$	$4\overline{)24}$	$3\overline{)6}$	$9\overline{)54}$	$6\overline{)18}$	$4\overline{)0}$	$5\overline{)30}$
$4\overline{)32}$	$8\overline{)56}$	$1\overline{)0}$	$6\overline{)12}$	$3\overline{)18}$	$9\overline{)72}$	$5\overline{)15}$	$2\overline{)8}$	$7\overline{)42}$	$6\overline{)36}$
$6\overline{)0}$	$5\overline{)10}$	$9\overline{)9}$	$2\overline{)6}$	$7\overline{)63}$	$4\overline{)16}$	$8\overline{)48}$	$1\overline{)2}$	$5\overline{)35}$	$3\overline{)21}$
$2\overline{)18}$	$6\overline{)6}$	$3\overline{)15}$	$8\overline{)40}$	$2\overline{)0}$	$5\overline{)20}$	$9\overline{)27}$	$1\overline{)8}$	$4\overline{)4}$	$7\overline{)35}$
$4\overline{)20}$	$9\overline{)63}$	$1\overline{)4}$	$7\overline{)14}$	$3\overline{)3}$	$8\overline{)24}$	$5\overline{)0}$	$6\overline{)24}$	$8\overline{)8}$	$2\overline{)16}$
$5\overline{)5}$	$8\overline{)64}$	$3\overline{)0}$	$4\overline{)28}$	$7\overline{)49}$	$2\overline{)4}$	$9\overline{)81}$	$3\overline{)12}$	$6\overline{)30}$	$1\overline{)5}$
$8\overline{)32}$	$1\overline{)1}$	$9\overline{)36}$	$3\overline{)27}$	$2\overline{)14}$	$5\overline{)25}$	$6\overline{)48}$	$8\overline{)0}$	$7\overline{)28}$	$4\overline{)36}$
$2\overline{)12}$	$5\overline{)45}$	$1\overline{)7}$	$4\overline{)8}$	$7\overline{)0}$	$8\overline{)16}$	$3\overline{)24}$	$9\overline{)45}$	$1\overline{)9}$	$6\overline{)54}$
$7\overline{)56}$	$9\overline{)0}$	$8\overline{)72}$	$2\overline{)2}$	$5\overline{)40}$	$3\overline{)9}$	$9\overline{)18}$	$1\overline{)6}$	$4\overline{)12}$	$7\overline{)7}$

FACTS PRACTICE TEST

G

48 Uneven Divisions

Name _____

Time _____

Divide. Write each answer with a remainder.

$4\overline{)15}$	$9\overline{)14}$	$7\overline{)45}$	$3\overline{)16}$	$6\overline{)38}$	$2\overline{)7}$
$8\overline{)50}$	$5\overline{)28}$	$4\overline{)21}$	$6\overline{)15}$	$7\overline{)11}$	$8\overline{)20}$
$3\overline{)20}$	$7\overline{)32}$	$8\overline{)30}$	$2\overline{)15}$	$5\overline{)43}$	$6\overline{)35}$
$9\overline{)62}$	$4\overline{)10}$	$6\overline{)27}$	$9\overline{)21}$	$4\overline{)19}$	$3\overline{)25}$
$6\overline{)56}$	$2\overline{)17}$	$3\overline{)10}$	$5\overline{)8}$	$9\overline{)40}$	$7\overline{)30}$
$2\overline{)5}$	$8\overline{)25}$	$5\overline{)17}$	$7\overline{)17}$	$3\overline{)8}$	$4\overline{)9}$
$7\overline{)20}$	$6\overline{)10}$	$2\overline{)9}$	$4\overline{)30}$	$8\overline{)15}$	$9\overline{)29}$
$5\overline{)32}$	$3\overline{)14}$	$9\overline{)50}$	$8\overline{)65}$	$2\overline{)11}$	$5\overline{)19}$

FACTS PRACTICE TEST

H

60 Improper Fractions to Simplify

Name _____

Time _____

Simplify.

$\frac{15}{2} =$	$\frac{9}{8} =$	$\frac{10}{2} =$	$\frac{18}{6} =$	$\frac{8}{3} =$	$\frac{12}{4} =$
$\frac{10}{10} =$	$\frac{3}{2} =$	$\frac{11}{4} =$	$\frac{4}{3} =$	$\frac{12}{5} =$	$\frac{5}{4} =$
$\frac{12}{6} =$	$\frac{9}{3} =$	$\frac{5}{5} =$	$\frac{15}{4} =$	$\frac{6}{2} =$	$\frac{9}{9} =$
$\frac{3}{3} =$	$\frac{7}{4} =$	$\frac{21}{10} =$	$\frac{11}{2} =$	$\frac{7}{6} =$	$\frac{24}{8} =$
$\frac{11}{3} =$	$\frac{9}{5} =$	$\frac{4}{2} =$	$\frac{21}{8} =$	$\frac{6}{5} =$	$\frac{12}{3} =$
$\frac{7}{2} =$	$\frac{25}{6} =$	$\frac{10}{9} =$	$\frac{4}{4} =$	$\frac{12}{2} =$	$\frac{16}{15} =$
$\frac{10}{5} =$	$\frac{5}{2} =$	$\frac{7}{3} =$	$\frac{8}{4} =$	$\frac{8}{8} =$	$\frac{27}{10} =$
$\frac{16}{4} =$	$\frac{6}{6} =$	$\frac{25}{12} =$	$\frac{5}{3} =$	$\frac{7}{5} =$	$\frac{16}{9} =$
$\frac{15}{8} =$	$\frac{10}{3} =$	$\frac{33}{10} =$	$\frac{2}{2} =$	$\frac{35}{6} =$	$\frac{25}{8} =$
$\frac{6}{3} =$	$\frac{8}{5} =$	$\frac{9}{4} =$	$\frac{12}{12} =$	$\frac{25}{2} =$	$\frac{9}{2} =$

FACTS PRACTICE TEST

I

40 Fractions to Reduce

Name _____

Time _____

Reduce each fraction to lowest terms.

$\frac{2}{10} =$	$\frac{8}{16} =$	$\frac{2}{6} =$	$\frac{10}{100} =$	$\frac{6}{8} =$
$\frac{10}{15} =$	$\frac{5}{10} =$	$\frac{8}{12} =$	$\frac{9}{15} =$	$\frac{4}{16} =$
$\frac{2}{8} =$	$\frac{4}{10} =$	$\frac{15}{20} =$	$\frac{4}{8} =$	$\frac{4}{6} =$
$\frac{6}{15} =$	$\frac{4}{12} =$	$\frac{25}{100} =$	$\frac{10}{25} =$	$\frac{12}{20} =$
$\frac{20}{100} =$	$\frac{6}{9} =$	$\frac{2}{4} =$	$\frac{3}{12} =$	$\frac{3}{15} =$
$\frac{3}{9} =$	$\frac{2}{12} =$	$\frac{6}{10} =$	$\frac{12}{16} =$	$\frac{50}{100} =$
$\frac{9}{12} =$	$\frac{3}{6} =$	$\frac{5}{15} =$	$\frac{10}{12} =$	$\frac{8}{24} =$
$\frac{12}{15} =$	$\frac{8}{10} =$	$\frac{75}{100} =$	$\frac{6}{12} =$	$\frac{12}{24} =$

FACTS PRACTICE TEST

K

30 Percents to Write as Fractions

Name _____

Time _____

Write each percent as a reduced fraction.

1% =	20% =	55% =	90% =	75% =
99% =	5% =	95% =	80% =	12% =
70% =	65% =	50% =	2% =	48% =
24% =	25% =	98% =	40% =	15% =
60% =	30% =	4% =	35% =	36% =
45% =	8% =	10% =	21% =	85% =

2 - 1	9 - 8	9 - 6	3 - 3	13 - 9	9 - 7	12 - 3	13 - 6	9 - 2	12 - 8
11 - 7	5 - 0	6 - 1	12 - 6	2 - 0	4 - 3	16 - 8	4 - 1	13 - 8	9 - 0
7 - 7	11 - 4	5 - 4	12 - 9	14 - 7	8 - 4	5 - 3	7 - 5	9 - 1	3 - 0
8 - 0	6 - 4	10 - 5	9 - 3	10 - 1	11 - 6	7 - 3	14 - 9	6 - 6	0 - 0
10 - 4	17 - 9	15 - 8	8 - 5	9 - 5	11 - 9	14 - 6	8 - 1	10 - 2	6 - 2
17 - 8	8 - 8	4 - 2	8 - 7	5 - 1	1 - 1	7 - 6	13 - 5	7 - 0	10 - 9
5 - 2	3 - 2	12 - 7	12 - 4	15 - 9	6 - 3	13 - 4	11 - 8	12 - 5	8 - 6
10 - 6	13 - 7	4 - 4	6 - 5	15 - 6	2 - 2	3 - 1	8 - 2	8 - 3	14 - 8
14 - 5	10 - 7	1 - 0	4 - 0	7 - 1	10 - 3	5 - 5	11 - 3	16 - 9	6 - 0
9 - 9	11 - 5	9 - 4	15 - 7	7 - 2	7 - 4	18 - 9	11 - 2	10 - 8	16 - 7

0 ÷ 1 =	8 ÷ 1 =	20 ÷ 5 =	54 ÷ 6 =	9 ÷ 1 =
16 ÷ 4 =	27 ÷ 3 =	6 ÷ 6 =	36 ÷ 4 =	24 ÷ 6 =
6 ÷ 2 =	48 ÷ 8 =	12 ÷ 6 =	2 ÷ 2 =	4 ÷ 2 =
0 ÷ 7 =	0 ÷ 5 =	40 ÷ 5 =	0 ÷ 2 =	48 ÷ 6 =
8 ÷ 8 =	1 ÷ 1 =	10 ÷ 5 =	27 ÷ 9 =	3 ÷ 3 =
14 ÷ 2 =	12 ÷ 2 =	2 ÷ 1 =	24 ÷ 8 =	6 ÷ 3 =
25 ÷ 5 =	0 ÷ 6 =	18 ÷ 9 =	15 ÷ 5 =	28 ÷ 4 =
15 ÷ 3 =	63 ÷ 7 =	42 ÷ 7 =	0 ÷ 3 =	36 ÷ 6 =
20 ÷ 4 =	40 ÷ 8 =	49 ÷ 7 =	5 ÷ 5 =	4 ÷ 4 =
÷ 1 =	18 ÷ 6 =	7 ÷ 7 =	32 ÷ 8 =	45 ÷ 5 =
56 ÷ 8 =	35 ÷ 5 =	16 ÷ 2 =	24 ÷ 4 =	24 ÷ 3 =
28 ÷ 7 =	4 ÷ 1 =	8 ÷ 2 =	5 ÷ 1 =	0 ÷ 4 =
21 ÷ 7 =	81 ÷ 9 =	9 ÷ 3 =	10 ÷ 2 =	14 ÷ 7 =
72 ÷ 8 =	18 ÷ 3 =	45 ÷ 9 =	16 ÷ 8 =	8 ÷ 4 =
63 ÷ 9 =	35 ÷ 7 =	0 ÷ 9 =	9 ÷ 9 =	32 ÷ 4 =
18 ÷ 2 =	30 ÷ 5 =	54 ÷ 9 =	6 ÷ 1 =	0 ÷ 8 =
72 ÷ 9 =	21 ÷ 3 =	36 ÷ 9 =	3 ÷ 1 =	30 ÷ 6 =
56 ÷ 7 =	12 ÷ 4 =	12 ÷ 3 =	64 ÷ 8 =	42 ÷ 6 =