1. Which one of the following is a **NOT TRUE** property of Rational numbers?
2. Rational numbers closed under Division.
3. Rational numbers closed under Addition.
4. Rational numbers closed under multiplication.
5. Rational numbers closed under Subtraction.
6. Solve **9(**$\frac{-5}{3}$ **+**$\frac{7}{3}$**) =** \_\_\_\_\_
7. -6
8. 6
9. 7
10. 9
11. Solve $\frac{7}{5}$ **+ (**$\frac{-5}{4}$ **-** $\frac{1}{4})$ **=** \_\_\_\_\_
12. $\frac{1}{10}$
13. $\frac{-1}{10}$
14. $\frac{-2}{10}$
15. $\frac{2}{10}$
16. If **x** and **y** are rational number *without zero*, then one of the following is always **true**?
17. $x-y=y-x$
18. $x÷y=y÷x$
19. $x×y=y×x$
20. $\frac{x}{y}×\frac{y}{x}=1$
21. The simplified form of $ \frac{-6}{14}÷\frac{3}{7}=$ \_\_\_\_\_\_
22. 1
23. $\frac{1}{2}$
24. $\frac{-1}{2}$
25. -1
26. Solve $\frac{3}{8}+3\frac{1}{5}= \\_\\_\\_\\_\\_\\_$
27. $3\frac{23}{40}$
28. $\frac{123}{40}$
29. $\frac{141}{40}$
30. $4\frac{4}{13}$
31. The simplified form of $\frac{3}{4}÷\left|\frac{-1}{6}-\frac{2}{3}\right|= \\_\\_\\_\\_\\_\\_$
32. $\frac{-3}{10}$
33. $\frac{-9}{10}$
34. $\frac{3}{10}$
35. $\frac{9}{10}$
36. What is the quotient of $\frac{3}{5}and \frac{-4}{5}$?
37. $\frac{37}{25}$
38. $\frac{39}{25}$
39. $\frac{-39}{25}$
40. $\frac{-19}{2}$
41. What numbers have to multiply $\frac{1}{5}to get \frac{7}{4}?$
42. $\frac{34}{9}$
43. $\frac{35}{4}$
44. $\frac{7}{20}$
45. $\frac{31}{20}$
46. The difference of $4\frac{5}{6}-2\frac{3}{2}=\\_\\_\\_\\_\\_\\_\\_\\_$
47. $\frac{29}{6}$
48. $\frac{13}{5}$
49. $\frac{67}{30}$
50. $\frac{4}{3}$
51. The simplified form of $\frac{\frac{15}{37}(\frac{4}{15}+\frac{23}{30}-\frac{5}{12})}{\frac{1}{7}(\frac{14}{3}÷\frac{1}{3})}=\\_\\_\\_\\_\\_\\_\\_\\_$
52. 2
53. $\frac{1}{4}$
54. $\frac{1}{8}$
55. $\frac{1}{2}$
56. The simplified form of $3\frac{2}{5}÷0.2÷0.6=\\_\\_\\_\\_\\_\\_$
57. $\frac{85}{3}$
58. $20\frac{1}{5}$
59. $\frac{17}{5}$
60. $\frac{25}{500}$
61. If we divided $\frac{51}{8} for \frac{9}{2} what result can we get?$
62. $\frac{5}{4}$
63. $12\frac{11}{10}$
64. $1\frac{5}{12}$
65. $15\frac{11}{10}$
66. Which one of the following is **NOT TRUE**?
67. $\frac{4}{5}+\frac{1}{3}=\frac{17}{15}$
68. $\frac{4}{5}×\frac{1}{3}=\frac{12}{5}$
69. $\frac{4}{5}-\frac{1}{3}=\frac{7}{15}$
70. $\frac{4}{5}÷\frac{1}{3}=\frac{12}{5}$
71. Determine the product of $-3\frac{3}{5}×1\frac{2}{3}×\left(-\frac{3}{2}\right)=\\_\\_\\_\\_\\_$
72. -9
73. -8
74. 8
75. 9
76. The sum of **(0.1+0.2)**$ \frac{1}{2}$ is \_\_\_\_\_\_\_\_
77. $\frac{2}{10}$
78. $\frac{20}{3}$
79. $\frac{3}{20}$
80. $\frac{4}{19}$
81. The value of $\left(\frac{-10}{3}\right)$ **x** $\left(\frac{-15}{2}\right)$ **x** $\frac{3}{5}$ **x 0 x** $\frac{7}{6}$ **= \_\_\_\_\_\_**
82. -10
83. 0
84. 20
85. 22.66
86. When $\frac{2}{3}\left[\frac{1}{3}-\frac{1}{2}\right]$**+**$\frac{1}{3}$$\left[\frac{2}{3}+\frac{1}{4}\right]$is simplified, it is equal to:
87. $\frac{1}{6}$
88. $\frac{7}{36}$
89. $\frac{5}{36}$
90. $\frac{7}{30}$
91. When $\left[\frac{-20}{3}×\frac{12}{5}\right]$$\left[\frac{7}{6}×\left(\frac{-2}{5}\right)\right]$is simplified it is equal to:
92. $\frac{24}{7}$
93. $\frac{120}{7}$
94. $\frac{240}{7}$
95. $\frac{280}{7}$
96. What is the sum of **3**$\frac{3}{4}$ **+3** $\frac{1}{5}$ **+ 6**$\frac{1}{6}$?
97. $10\frac{59}{60}$
98. $\frac{59}{60}$
99. $13\frac{7}{60}$
100. $13\frac{87}{60}$
101. $ \left[\frac{1}{9}+\frac{3}{18}\right]×\left[4-\frac{1}{6}\right]$is equal to \_\_\_\_
102. $\frac{35}{36}$
103. $\frac{105}{108}$
104. $\frac{72}{70}$
105. $\frac{115}{108}$
106. The reciprocal of $-\frac{3}{8}×\left(-\frac{7}{4}\right)=\\_\\_\\_\\_\\_\\_\\_$
107. $\frac{32}{21}$
108. $\frac{21}{32}$
109. $\frac{-32}{21}$
110. $\frac{21}{32}$
111. Which is the value of $2\frac{1}{2}+3\frac{1}{3}+4\frac{1}{4}=\\_\\_\\_\\_\\_\\_\\_$
112. $12\frac{1}{10}$
113. $10\frac{1}{12}$
114. $12\frac{1}{2}$
115. $10\frac{1}{2}$
116. When $\left[\left(\frac{1}{3}-\left.\frac{3}{4}\right)÷\left(\frac{3}{5}\right.÷\frac{6}{5}\right)\right]\frac{6}{15}$is equal to\_\_\_\_\_\_\_
117. $\frac{1}{3}$
118. $\frac{-1}{3}$
119. $\frac{6}{15}$
120. $\frac{1}{5}$
121. To simplify the expression $\frac{\frac{1}{6} ÷\left(\frac{1}{3} + \frac{4}{5}\right)}{\frac{5}{2} + 3\left(\frac{2}{5} ÷ \frac{3}{5}\right)}$ is
122. $\frac{5}{153}$
123. $\frac{5}{34}$
124. $\frac{9}{2}$
125. $\frac{45}{68}$

*Prepared by: Mathematics department*