Summer
Math Exercises

For students who
are entering

Math 7

Cherokee Christian
SCHOOLS

It has been discovered that idle students lose learning over the summer months. To help you succeed next fall—and perhaps to help you learn some lessons that you did not learn the first time through—we have prepared the following packet of math exercises to be completed over the summer. It is clear that most students do not want to spend their entire summer doing math work. Based on how fast or slow you work, you may find that you only need to do math a few days a week. Working on this packet will be most effective if you do work throughout the summer so try not to skip weeks. You may use the following chart to get an idea of how often you might need to work problems:

	Into Math 7
Problems:	184

Min/Day	Min/Prob	Prob/Day	Sessions
60	2	30	6
60	3	20	9
60	5	12	15
45	2	22.5	8
45	3	15	12
45	5	9	20
30	2	15	12
30	3	10	18
30	5	6	31

For example, if you work on math for 60 minutes per session and took 2 minutes per problem, you could complete 30 problems a day. That would equate to only about 6 sessions of working math problems over the summer. At the other end of the spectrum, if you want to work only 30 minutes each time and took on average 5 minutes to complete each problem, you would only get 6 problems done during a session and would have to do about 31 sessions to complete the work (i.e., math work about every other day during the summer break). Note that students who learned the material previously should not take more than an average of 5 minutes to work a problem.

This work is **MANDATORY** for CCA students. Please follow these guidelines:

- Complete the problems assigned on the next page.
- Bring the completed work to the **first day of classes** so you will get credit.
- Use PENCIL and **write legibly**.
- Please write your **answers in the answer blanks**. Also, use the graphs and tables provided to answer those questions.
- Do all your work on **separate sheets of paper**.

Round each number as directed.

	Tens	Hundreds
1. 4179		

	Hundreds	Thousands
2. 12,551		

	Tenths	Hundredths
3. 12.775		

	Hundredths	Thousandths
4. 0.0499		

Perform the indicated operations.

5. $1008 + 995 =$ _____
6. $89928 + 82 =$ _____
7. $9821 + 3920 =$ _____
8. $48811 + 17709 =$ _____

9. $1008 - 995 =$ _____
10. $89928 - 82 =$ _____
11. $9821 - 3920 =$ _____
12. $48811 - 17709 =$ _____

13. $7 + 8 + 12 + 6 + 29 =$ _____
14. $12 + 873 + 902 + 78 =$ _____

15. $59 \times 26 =$ _____
16. $109 \times 672 =$ _____
17. $88 \times 99 =$ _____
18. $992 \times 782 =$ _____

19. $2896 \div 8 =$ _____
20. $8938 \div 82 =$ _____
21. $72364 \div 316 =$ _____
22. $436455 \div 305 =$ _____

23. $8 \times 2 \times 5 \times 6 \times 9 =$ _____
24. $77 \times 12 \times 93 =$ _____

25. $87.307 + 2.98 =$ _____
26. $0.0421 + 1.78 =$ _____
27. $663.21 - 490.88 =$ _____
28. $10.269 - 9.8001 =$ _____
29. $23.98 \times 12.3 =$ _____
30. $9.002 \times 72 =$ _____
31. $902.2 \div 0.02 =$ _____
32. $78.455 \div 3.55 =$ _____

33. $12.4 + 89.2 + 60.7 =$ _____
34. $4.049 + 72.8 + 0.88 =$ _____

35. $17.1 \times 0.02 \div 3.8 =$ _____
36. $0.01 \times 0.02 \times 55 =$ _____

Round each number as directed.

	Tens	Hundreds		Hundreds	Thousands
37. 1100			38. 90,817		
	Tenths	**Hundredths**		**Hundredths**	**Thousandths**
39. 99.009			40. 9.5463		

Perform the indicated operations.

41. $5209 + 4283 =$ _____
42. $6091 + 998 =$ _____
43. $7922 + 6363 =$ _____
44. $49388 + 19553 =$ _____

45. $5209 - 4283 =$ _____
46. $6091 - 998 =$ _____
47. $7922 - 6363 =$ _____
48. $49388 - 19553 =$ _____

49. $27 + 16 + 8 + 21 + 3 =$ _____
50. $555 + 87 + 136 + 47 =$ _____

51. $78 \times 22 =$ _____
52. $328 \times 559 =$ _____
53. $62 \times 95 =$ _____
54. $737 \times 737 =$ _____

55. $8703 \div 9 =$ _____
56. $6815 \div 47 =$ _____
57. $55896 \div 274 =$ _____
58. $311168 \div 208 =$ _____

59. $4 \times 4 \times 7 \times 3 \times 7 =$ _____
60. $43 \times 18 \times 71 =$ _____

61. $0.0036 + 4.989 =$ _____
62. $8.88 + 44.818 =$ _____
63. $66.111 - 37.777 =$ _____
64. $21.001 - 12.97 =$ _____
65. $49.01 \times 68 =$ _____
66. $8.273 \times 66 =$ _____
67. $1000 \div 0.05 =$ _____
68. $87.291 \div 0.61 =$ _____

69. $77.6 + 0.8 + 33.46 =$ _____
70. $0.055+0.28+0.709 =$ _____

71. $70.5 \times 0.08 \div 25 =$ _____
72. $7.2 \times 0.08 \times 0.3 =$ _____

Write the fractions in lowest terms.

73. $\frac{4}{24}$ = ____ 74. $\frac{24}{60}$ = ____ 75. $\frac{66}{72}$ = ____ 76. $\frac{85}{95}$ = ____

Change to a mixed number in lowest terms.

77. $\frac{30}{8}$ = _____ 78. $\frac{76}{10}$ = _____ 79. $\frac{96}{18}$ = _____

Change each fraction to a decimal.

80. $\frac{1}{16}$ = _____ 81. $\frac{26}{8}$ = _____ 82. $\frac{18}{48}$ = _____

Change each decimal to a fraction in lowest terms.

83. 0.6 = ____ 84. 0.68 = ____ 85. 0.825 = ____

Which fraction is greater?

86. $\frac{7}{12}$ or $\frac{3}{5}$? ____ 87. $\frac{17}{20}$ or $\frac{8}{9}$? ____ 88. $\frac{29}{35}$ or $\frac{4}{5}$? ____

Express each percent as a fraction.

89. 60% = ____ 90. 8% = ____ 91. 2.5% = ____

Express each fraction as a percent.

92. $\frac{6}{40}$ = _____ 93. $\frac{9}{25}$ = _____ 94. $\frac{12}{5}$ = _____

Express each decimal as a percent.

95. 0.23 =

96. 1.92 =

97. 0.007 = _____

Express each percent as a decimal.

98. 88% =

99. 390% =

100. 4.3% = _____

Write the fractions in lowest terms.

101. $\frac{72}{96} =$ ____ 102. $\frac{35}{84} =$ ____ 103. $\frac{72}{116} =$ ____ 104. $\frac{4}{96} =$ ____

Change to a mixed number in lowest terms.

105. $\frac{40}{6} =$ _____ 106. $\frac{70}{12} =$ _____ 107. $\frac{33}{6} =$ _____

Change each fraction to a decimal.

108. $\frac{1}{8} =$ _____ 109. $\frac{90}{25} =$ _____ 110. $\frac{14}{560} =$ _____

Change each decimal to a fraction in lowest terms.

111. $0.75 =$ ____ 112. $1.2 =$ ____ 113. $0.0625 =$ ____

Which fraction is greater?

114. $\frac{8}{15}$ or $\frac{3}{5}$? ____ 115. $\frac{19}{21}$ or $\frac{8}{9}$? ____ 116. $\frac{7}{8}$ or $\frac{21}{23}$? ____

Express each percent as a fraction.

117. $20\% =$ ____ 118. $2\% =$ ____ 119. $37.5\% =$ ____

Express each fraction as a percent.

120. $\frac{18}{60} =$ _____ 121. $\frac{18}{8} =$ _____ 122. $\frac{1}{25} =$ _____

Express each decimal as a percent.

123. $0.81 =$

124. $3.03 =$

125. $0.025 =$ _____

Express each percent as a decimal.

126. $40\% =$

127. $1000\% =$

128. $0.6\% =$ _____

Perform the indicated operations.

129. $\frac{2}{7} + \frac{4}{7} =$ ____

130. $\frac{1}{4} + \frac{1}{2} =$ ____

131. $\frac{1}{3} + \frac{1}{100} =$ ____

132. $\frac{3}{8} + \frac{5}{12} =$ ____

133. $\frac{8}{25} + \frac{3}{10} =$ ____

134. $\frac{4}{21} + \frac{5}{14} =$ ____

135. $\frac{7}{9} - \frac{4}{9} =$ ____

136. $\frac{4}{5} - \frac{1}{2} =$ ____

137. $\frac{7}{11} - \frac{1}{22} =$ ____

138. $\frac{13}{20} - \frac{5}{12} =$ ____

139. $\frac{9}{25} - \frac{3}{10} =$ ____

140. $\frac{7}{12} - \frac{1}{16} =$ ____

141. $\frac{2}{5} \times \frac{2}{7} =$ ____

142. $\frac{3}{4} \times \frac{2}{9} =$ ____

143. $\frac{10}{13} \times \frac{26}{45} =$ ____

144. $\frac{3}{22} \times \frac{22}{63} =$ ____

145. $\frac{4}{7} \times \frac{100}{101} =$ ____

146. $\frac{21}{28} \times \frac{30}{70} =$ ____

147. $\frac{1}{5} \div \frac{1}{2} =$ ____

148. $\frac{4}{7} \div \frac{8}{9} =$ ____

149. $\frac{5}{13} \div \frac{15}{26} =$ ____

150. $\frac{7}{77} \div \frac{14}{22} =$ ____

151. $\frac{50}{97} \div \frac{100}{61} =$ ____

152. $\frac{28}{231} \div \frac{112}{77} =$ ____

153. $8\frac{1}{2} + 1\frac{5}{12} =$ ____

154. $5\frac{2}{3} + 7\frac{1}{12} =$ ____

155. $11\frac{3}{5} - 4\frac{1}{4} =$ ____

156. $9\frac{3}{4} - 3\frac{1}{8} =$ ____

Perform the indicated operations.

157. $\frac{4}{9} + \frac{1}{9} =$ ____

158. $\frac{1}{5} + \frac{4}{15} =$ ____

159. $\frac{3}{25} + \frac{11}{200} =$ ____

160. $\frac{2}{9} + \frac{7}{12} =$ ____

161. $\frac{6}{25} + \frac{4}{15} =$ ____

162. $\frac{1}{21} + \frac{5}{14} =$ ____

163. $\frac{7}{11} - \frac{6}{11} =$ ____

164. $\frac{7}{8} - \frac{1}{4} =$ ____

165. $\frac{8}{11} - \frac{4}{33} =$ ____

166. $\frac{17}{20} - \frac{5}{8} =$ ____

167. $\frac{9}{10} - \frac{1}{4} =$ ____

168. $\frac{23}{30} - \frac{1}{6} =$ ____

169. $\frac{4}{9} \times \frac{15}{44} =$ ____

170. $\frac{72}{81} \times \frac{6}{8} =$ ____

171. $\frac{11}{19} \times \frac{11}{40} =$ ____

172. $\frac{16}{33} \times \frac{22}{64} =$ ____

173. $\frac{4}{77} \times \frac{99}{111} =$ ____

174. $\frac{45}{50} \times \frac{25}{70} =$ ____

175. $\frac{2}{7} \div \frac{1}{2} =$ ____

176. $\frac{8}{21} \div \frac{8}{9} =$ ____

177. $\frac{1}{27} \div \frac{15}{81} =$ ____

178. $\frac{77}{99} \div \frac{27}{33} =$ ____

179. $\frac{8}{5} \div \frac{100}{22} =$ ____

180. $\frac{75}{51} \div \frac{125}{33} =$ ____

181. $2\frac{1}{4} + 2\frac{3}{10} =$ _____

182. $1\frac{1}{3} + 9\frac{5}{12} =$ _____

183. $20\frac{3}{5} - 9\frac{6}{35} =$ _____

184. $2\frac{7}{8} - 1\frac{1}{4} =$ _____