

Summer Math Exercises

*For students who
are entering*

Math 6



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S C H O O L S

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 6
Problems: 178

<u>Days/Wk</u>	<u>Min/Day</u>	<u>Min/Prob</u>	<u>Prob/Day</u>	<u>Sessions</u>
4	60	2	30	6
4	60	3	20	9
4	60	5	12	15
4	45	2	22.5	8
4	45	3	15	12
4	45	5	9	20
4	30	2	15	12
4	30	3	10	18
4	30	5	6	30

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 30 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 Primary 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.

1. 417	Tens _____	Hundreds _____
	Tenths _____	Hundredths _____

2. 70,861	Hundreds _____	Thousands _____
	Tenths _____	Hundredths _____

3. 89.621	_____	_____
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4. 1.0268	_____	_____
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Perform the indicated operations.

5. $108 + 99 =$ _____

6. $8928 + 82 =$ _____

7. $982 + 392 =$ _____

8. $4881 + 1770 =$ _____

9. $108 - 99 =$ _____

10. $828 - 82 =$ _____

11. $982 - 392 =$ _____

12. $481 - 177 =$ _____

13. $7 + 8 + 12 + 29 =$ _____

14. $873 + 902 + 78 =$ _____

15. $9 \times 26 =$ _____

16. $109 \times 67 =$ _____

17. $88 \times 90 =$ _____

18. $782 \times 44 =$ _____

19. $288 \div 8 =$ _____

20. $58384 \div 82 =$ _____

21. $9159 \div 43 =$ _____

22. $5185 \div 17 =$ _____

23. $8 \times 2 \times 6 \times 9 =$ _____

24. $7 \times 12 \times 93 =$ _____

25. $87.37 + 2.9 =$ _____

26. $2.0421 + 1.8 =$ _____

27. $63.21 - 40.8 =$ _____

28. $1.269 - 0.801 =$ _____

29. $23.8 \times 12.3 =$ _____

30. $9.002 \times 7 =$ _____

31. $9.2 \div 0.2 =$ _____

32. $7.35 \div 3.5 =$ _____

33. $12.4 + 9.2 + 60.7 =$ _____

34. $4.09 + 72.8 + 0.8 =$ _____

35. $7 \times 0.2 \times 0.8 =$ _____

36. $0.01 \times 0.02 \times 5 =$ _____

Round each number as directed.

37. 855	Tens _____	Hundreds _____
	Hundredths _____	Thousandths _____

39. 8.098	_____	_____
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38. 19,812	Hundreds _____	Thousands _____
	Hundredths _____	Thousandths _____

40. 9.5406	_____	_____
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Perform the indicated operations.

41. 509 + 483 =	
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43. 722 + 636 =	
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42. 1609 + 981 =	
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44. 7953 + 4934 =	
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45. 509 - 483 =	
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47. 722 - 636 =	
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46. 1609 - 981 =	
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48. 7953 - 4934 =	
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49. 27 + 16 + 8 + 3 =	
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50. 55 + 7 + 136 + 47 =	
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51. 8 × 22 =	
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53. 15 × 62 =	
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52. 559 × 38 =	
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54. 37 × 73 =	
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55. 873 ÷ 9 =	
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57. 6576 ÷ 24 =	
-----------------	--

56. 987 ÷ 47 =	
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58. 9568 ÷ 46 =	
-----------------	--

59. 4 × 4 × 7 × 3 × 2 =	
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60. 43 × 8 × 71 =	
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61. 0.006 + 4.89 =	
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62. 0.88 + 4.818 =	
--------------------	--

63. 6.118 - 3.777 =	
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64. 21.01 - 12.7 =	
--------------------	--

65. 9.01 × 68 =	
-----------------	--

66. 8.73 × 66 =	
-----------------	--

67. 1000 ÷ 0.5 =	
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68. 7.991 ÷ 0.61 =	
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69. 7.6 + 0.8 + 3.46 =	
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70. 0.05+0.8+0.79 =	
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71. 7.5 × 0.08 × 25 =	
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72. 7 × 0.08 × 0.3 =	
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Write the fractions in lowest terms.

73. $\frac{2}{8} =$ _____ 74. $\frac{8}{24} =$ _____ 75. $\frac{16}{24} =$ _____ 76. $\frac{55}{66} =$ _____

Change to a mixed number in lowest terms.

77. $\frac{14}{4} =$ _____ 78. $\frac{26}{5} =$ _____ 79. $\frac{41}{18} =$ _____

Change each fraction to a decimal.

80. $\frac{1}{8} =$ _____ 81. $\frac{4}{5} =$ _____ 82. $\frac{18}{20} =$ _____

Change each decimal to a fraction in lowest terms.

83. 0.75 = _____ 84. 0.15 = _____ 85. 0.65 = _____

Which fraction is greater?

86. $\frac{1}{2}$ or $\frac{3}{5}$? _____ 87. $\frac{1}{2}$ or $\frac{4}{9}$? _____ 88. $\frac{3}{10}$ or $\frac{1}{3}$? _____

Write >, < or = in each blank.

89. 0.5 _____ 0.05 90. 0.91 _____ 0.909 91. 1.9 _____ 2

Express each fraction as a percent.

92. $\frac{1}{2} =$ _____ 93. $\frac{7}{10} =$ _____ 94. $\frac{4}{5} =$ _____

95. $\frac{1}{4} =$ _____ 96. $\frac{2}{5} =$ _____ 97. $\frac{1}{10} =$ _____

Write the fractions in lowest terms.

$$98. \frac{56}{64} = \underline{\hspace{2cm}}$$

$$99. \frac{16}{36} = \underline{\hspace{2cm}}$$

$$100. \frac{15}{35} = \underline{\hspace{2cm}}$$

$$101. \frac{4}{96} = \underline{\hspace{2cm}}$$

Change to a mixed number in lowest terms.

$$102. \frac{40}{6} = \underline{\hspace{2cm}}$$

$$103. \frac{70}{12} = \underline{\hspace{2cm}}$$

$$104. \frac{33}{6} = \underline{\hspace{2cm}}$$

Change each fraction to a decimal.

$$105. \frac{3}{8} = \underline{\hspace{2cm}}$$

$$106. \frac{11}{25} = \underline{\hspace{2cm}}$$

$$107. \frac{40}{200} = \underline{\hspace{2cm}}$$

Change each decimal to a fraction in lowest terms.

$$108. \quad 0.8 = \underline{\hspace{2cm}}$$

$$109. \quad 0.1 = \underline{\hspace{2cm}}$$

$$110. \quad 0.35 = \underline{\hspace{2cm}}$$

Which fraction is greater?

$$111. \quad \frac{8}{15} \text{ or } \frac{3}{5} ? \quad \underline{\hspace{2cm}}$$

$$112. \quad \frac{9}{10} \text{ or } \frac{8}{9} ? \quad \underline{\hspace{2cm}}$$

$$113. \quad \frac{7}{8} \text{ or } \frac{3}{4} ? \quad \underline{\hspace{2cm}}$$

Write $>$, $<$ or $=$ in each blank.

$$114. \quad 0.4 \quad \underline{\hspace{1cm}} \quad 0.51$$

$$115. \quad 0.7 \quad \underline{\hspace{1cm}} \quad 0.681$$

$$116. \quad 8.1 \quad \underline{\hspace{1cm}} \quad 8$$

Write the number that makes the fractions equivalent.

$$117. \quad \frac{1}{4} = \frac{\underline{28}}{\hspace{2cm}}$$

$$118. \quad \frac{3}{5} = \frac{\underline{20}}{\hspace{2cm}}$$

$$119. \quad \frac{8}{9} = \frac{\underline{18}}{\hspace{2cm}}$$

$$120. \quad \frac{4}{10} = \frac{\underline{100}}{\hspace{2cm}}$$

$$121. \quad \frac{3}{7} = \frac{\underline{21}}{\hspace{2cm}}$$

$$122. \quad \frac{1}{2} = \frac{\underline{44}}{\hspace{2cm}}$$

Perform the indicated operations.

$$123. \frac{3}{8} + \frac{1}{8} = \underline{\hspace{2cm}}$$

$$124. \frac{1}{4} + \frac{1}{5} = \underline{\hspace{2cm}}$$

$$125. \frac{1}{3} + \frac{2}{7} = \underline{\hspace{2cm}}$$

$$126. \frac{3}{4} + \frac{1}{6} = \underline{\hspace{2cm}}$$

$$127. \frac{3}{7} + \frac{1}{2} = \underline{\hspace{2cm}}$$

$$128. \frac{2}{9} + \frac{1}{3} = \underline{\hspace{2cm}}$$

$$129. \frac{10}{11} - \frac{4}{11} = \underline{\hspace{2cm}}$$

$$130. \frac{4}{5} - \frac{1}{2} = \underline{\hspace{2cm}}$$

$$131. \frac{5}{11} - \frac{1}{22} = \underline{\hspace{2cm}}$$

$$132. \frac{9}{10} - \frac{5}{6} = \underline{\hspace{2cm}}$$

$$133. \frac{14}{25} - \frac{1}{10} = \underline{\hspace{2cm}}$$

$$134. \frac{7}{8} - \frac{1}{16} = \underline{\hspace{2cm}}$$

$$135. \frac{2}{3} \times \frac{1}{3} = \underline{\hspace{2cm}}$$

$$136. \frac{3}{4} \times \frac{2}{3} = \underline{\hspace{2cm}}$$

$$137. \frac{3}{7} \times \frac{14}{27} = \underline{\hspace{2cm}}$$

$$138. \frac{3}{10} \times \frac{22}{9} = \underline{\hspace{2cm}}$$

$$139. \frac{44}{50} \times \frac{10}{11} = \underline{\hspace{2cm}}$$

$$140. \frac{21}{28} \times \frac{3}{7} = \underline{\hspace{2cm}}$$

$$141. \frac{1}{5} \div \frac{1}{3} = \underline{\hspace{2cm}}$$

$$142. \frac{4}{7} \div \frac{8}{9} = \underline{\hspace{2cm}}$$

$$143. \frac{5}{13} \div \frac{15}{26} = \underline{\hspace{2cm}}$$

$$144. \frac{2}{3} \div \frac{4}{5} = \underline{\hspace{2cm}}$$

$$145. \frac{7}{8} \div \frac{14}{15} = \underline{\hspace{2cm}}$$

$$146. \frac{5}{9} \div \frac{10}{13} = \underline{\hspace{2cm}}$$

$$147. 8 \frac{1}{2} + 1 \frac{1}{4} = \underline{\hspace{2cm}}$$

$$148. 2 \frac{2}{3} + 1 \frac{1}{12} = \underline{\hspace{2cm}}$$

$$149. 12 \frac{3}{5} - 4 \frac{1}{10} = \underline{\hspace{2cm}}$$

$$150. 8 \frac{1}{2} - 2 \frac{1}{10} = \underline{\hspace{2cm}}$$

Perform the indicated operations.

$$151. \frac{4}{11} + \frac{1}{11} = \underline{\hspace{2cm}}$$

$$152. \frac{1}{5} + \frac{3}{10} = \underline{\hspace{2cm}}$$

$$153. \frac{2}{5} + \frac{1}{3} = \underline{\hspace{2cm}}$$

$$154. \frac{7}{10} + \frac{1}{20} = \underline{\hspace{2cm}}$$

$$155. \frac{2}{15} + \frac{2}{5} = \underline{\hspace{2cm}}$$

$$156. \frac{3}{16} + \frac{1}{16} = \underline{\hspace{2cm}}$$

$$157. \frac{24}{25} - \frac{9}{25} = \underline{\hspace{2cm}}$$

$$158. \frac{1}{2} - \frac{1}{10} = \underline{\hspace{2cm}}$$

$$159. \frac{9}{11} - \frac{2}{33} = \underline{\hspace{2cm}}$$

$$160. \frac{2}{7} - \frac{1}{14} = \underline{\hspace{2cm}}$$

$$161. \frac{7}{15} - \frac{1}{5} = \underline{\hspace{2cm}}$$

$$162. \frac{4}{5} - \frac{3}{4} = \underline{\hspace{2cm}}$$

$$163. \frac{4}{9} \times \frac{15}{44} = \underline{\hspace{2cm}}$$

$$164. \frac{72}{81} \times \frac{6}{8} = \underline{\hspace{2cm}}$$

$$165. \frac{11}{19} \times \frac{11}{40} = \underline{\hspace{2cm}}$$

$$166. \frac{16}{33} \times \frac{22}{64} = \underline{\hspace{2cm}}$$

$$167. \frac{4}{77} \times \frac{99}{111} = \underline{\hspace{2cm}}$$

$$168. \frac{45}{50} \times \frac{25}{70} = \underline{\hspace{2cm}}$$

$$169. \frac{2}{7} \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$170. \frac{8}{21} \div \frac{8}{9} = \underline{\hspace{2cm}}$$

$$171. \frac{1}{16} \div \frac{3}{12} = \underline{\hspace{2cm}}$$

$$172. \frac{3}{8} \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$173. \frac{2}{5} \div \frac{6}{10} = \underline{\hspace{2cm}}$$

$$174. \frac{20}{50} \div \frac{15}{30} = \underline{\hspace{2cm}}$$

$$175. 7 \frac{1}{2} \times 4 \frac{1}{3} = \underline{\hspace{2cm}}$$

$$176. 5 \frac{3}{5} \div 3 \frac{1}{2} = \underline{\hspace{2cm}}$$

$$177. 2 \frac{3}{4} \times 1 \frac{1}{5} = \underline{\hspace{2cm}}$$

$$178. 4 \frac{1}{2} \div 1 \frac{1}{5} = \underline{\hspace{2cm}}$$