

# 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 Middle School 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	<u>          </u> Tens	<u>          </u> Hundreds
3.	89.621	<u>          </u> Tenths	<u>          </u> Hundredths

2.	70,861	<u>          </u> Hundreds	<u>          </u> Thousands
4.	1.0268	<u>          </u> Tenths	<u>          </u> Hundredths

Perform the indicated operations.

5.  $108 + 99 =$            

7.  $982 + 392 =$            

6.  $8928 + 82 =$            

8.  $4881 + 1770 =$            

9.  $108 - 99 =$            

11.  $982 - 392 =$            

10.  $828 - 82 =$            

12.  $481 - 177 =$            

13.  $7 + 8 + 12 + 29 =$            

14.  $873 + 902 + 78 =$            

15.  $9 \times 26 =$            

17.  $88 \times 90 =$            

16.  $109 \times 67 =$            

18.  $782 \times 44 =$            

19.  $288 \div 8 =$            

21.  $9159 \div 43 =$            

20.  $58384 \div 82 =$            

22.  $5185 \div 17 =$            

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

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

25.  $87.37 + 2.9 =$            

27.  $63.21 - 40.8 =$            

29.  $23.8 \times 12.3 =$            

31.  $9.2 \div 0.2 =$            

26.  $2.0421 + 1.8 =$            

28.  $1.269 - 0.801 =$            

30.  $9.002 \times 7 =$            

32.  $7.35 \div 3.5 =$            

33.  $12.4 + 9.2 + 60.7 =$            

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

34.  $4.09 + 72.8 + 0.8 =$            

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

Round each number as directed.

		Tens	Hundreds
37.	855	<u>          </u>	<u>          </u>
		Hundredths	Thousandths
39.	8.098	<u>          </u>	<u>          </u>

		Hundreds	Thousands
38.	19,812	<u>          </u>	<u>          </u>
		Hundredths	Thousandths
40.	9.5406	<u>          </u>	<u>          </u>

Perform the indicated operations.

41.  $509 + 483 =$            

43.  $722 + 636 =$            

42.  $1609 + 981 =$            

44.  $7953 + 4934 =$            

45.  $509 - 483 =$            

47.  $722 - 636 =$            

46.  $1609 - 981 =$            

48.  $7953 - 4934 =$            

49.  $27 + 16 + 8 + 3 =$            

50.  $55 + 7 + 136 + 47 =$            

51.  $8 \times 22 =$            

53.  $15 \times 62 =$            

52.  $559 \times 38 =$            

54.  $37 \times 73 =$            

55.  $873 \div 9 =$            

57.  $6576 \div 24 =$            

56.  $987 \div 47 =$            

58.  $9568 \div 46 =$            

59.  $4 \times 4 \times 7 \times 3 \times 2 =$            

60.  $43 \times 8 \times 71 =$            

61.  $0.006 + 4.89 =$            

63.  $6.118 - 3.777 =$            

65.  $9.01 \times 68 =$            

67.  $1000 \div 0.5 =$            

62.  $0.88 + 4.818 =$            

64.  $21.01 - 12.7 =$            

66.  $8.73 \times 66 =$            

68.  $7.991 \div 0.61 =$            

69.  $7.6 + 0.8 + 3.46 =$            

71.  $7.5 \times 0.08 \times 25 =$            

70.  $0.05 + 0.8 + 0.79 =$            

72.  $7 \times 0.08 \times 0.3 =$

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.

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

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

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

Which fraction is greater?

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

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

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

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.

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

$$118. \quad \frac{3}{5} = \frac{\hspace{1cm}}{\hspace{1cm}} \quad \underline{20}$$

$$119. \quad \frac{8}{9} = \frac{\hspace{1cm}}{\hspace{1cm}} \quad \underline{18}$$

$$120. \quad \frac{4}{10} = \frac{\hspace{1cm}}{\hspace{1cm}} \quad \underline{100}$$

$$121. \quad \frac{3}{7} = \frac{\hspace{1cm}}{\hspace{1cm}} \quad \underline{21}$$

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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