

Summer Packet for Students entering Algebra 1/2

All of the problems in your summer packet must include the work and must be completed without the use of a calculator. All fraction problems must be reduced to lowest terms unless otherwise noted

1. Use words to write the number 4298259.	5. Use words to write the number 2141902.
2. Use words to write the number 8610136.	6. Round 52,335,443 to the nearest hundred thousand.
3. Use words to write the number 9324784.	7. Round 15,864,654 to the nearest million.
4. Use words to write the number 5733756.	8. Round 84,383,471 to the nearest hundred thousand.

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<p>9. Round 63,598,542 to the nearest hundred thousand.</p>	<p>13. A price was reduced four thousand, four hundred seventyseven dollars. The final price was six thousand, nin e hundred thirty-eight dollars. What was the original price?</p>
<p>10. Round 59,731,113 to the nearest million.</p>	<p>14. Use words to write these numbers: 1,149,235.32476</p>
<p>11. When Hilton finished reading 140 pages of a 272-page book, he still had how many pages to read?</p>	<p>15. Use words to write these numbers: 2,751,551.65398</p>
<p>12. There were 745 runners preregistered for a race. More runners signed up the day of the race. There were 1093 runners in the race. How many runners signed up the day of the race?</p>	<p>16. Use words to write these numbers: 1,562,338.58903</p>

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<p>17. Use words to write these numbers: 210.685</p>	<p>21. Use digits and a decimal point to write these numbers: (a) twenty-two and twenty-four hundredths (b) one hundred ninety-eight and eight hundred thirtyone thousandths</p>
<p>18. Use words to write these numbers: 212.917</p>	<p>22. Use digits and a decimal point to write these numbers: (a) ninety-four and twelve hundredths (b) one hundred twenty-seven and five hundred fifteen thousandths</p>
<p>19. Use digits and a decimal point to write these numbers: (a) ninety-three and nineteen hundredths (b) one hundred twenty-seven and six hundred forty-six thousandths</p>	<p>23. Use digits and a decimal point to write these numbers: (a) thirty-six and twenty-six hundredths (b) one hundred twenty-two and five hundred thirty-two thousandths</p>
<p>20. Use digits and a decimal point to write these numbers: (a) sixty-six and twenty-two hundredths (b) one hundred eighty-nine and two hundred seventy-nine thousandths</p>	<p>Remember to line up the decimals Add: 24. $12.872 + 0.486$</p>

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25. $8.225 + 0.474$	Remember to line up the decimals Subtract: 29. $784.2 - 61.95$
26. $10.839 + 0.838$	30. $751.3 - 19.75$
27. $7.265 + 0.119$	31. $619.6 - 40.88$
28. Add: $18.541 + 0.437$	32. $691.4 - 79.97$

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33. $776.7 - 95.74$

36. 4.04×81.3

Remember after you multiply, add the number of decimal places in both factors to find the position of the decimal point in the product

Multiply
 Example

34. 2.91×25.5

$$\begin{array}{r}
 2.91 \\
 \times 25.5 \\
 \hline
 1455 \\
 1455 \\
 \underline{582} \\
 74.205
 \end{array}$$

37. 8.62×60.8

35. 1.96×41.2

38. 4.39×47.7

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Remember to move the decimal point over, over and up.

Divide:

Example

39. $1.576 \div 0.08$

$$\begin{array}{r}
 19.7 \\
 0.08 \overline{) 1.576} \\
 \underline{8} \\
 77 \\
 \underline{72} \\
 56 \\
 \underline{56} \\
 0
 \end{array}$$

42. $0.798 \div 0.06$

Divide:

40. $0.508 \div 0.04$

43. $1.665 \div 0.09$

41. $0.88 \div 0.05$

44. $77 \div 8$

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45. $67 \div 4$

48. $29 \div 8$

46. $49 \div 8$

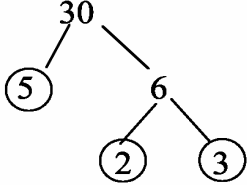
49. Leona received a shipment of 19 boxes of T-shirts. Each box contained 11 T-shirts. How many T-shirts were in the shipment?

47. $89 \div 4$

50. Layton received a shipment of 14 boxes of sun catchers. Each box contained 12 sun catchers. How many sun catchers were in the shipment?

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<p>51. Select all prime numbers from the list below. 13, 19, 29, 15, 18, 37, 43, 22, 8</p>	<p>54. Write 30 as a product of prime numbers</p> <p>Example: Draw a factor tree</p>  <pre>graph TD; 30 --- 5((5)); 30 --- 6; 6 --- 2((2)); 6 --- 3((3));</pre> <p>$30 = 2 \times 3 \times 5$</p>
<p>52. List all prime numbers between 12 and 28.</p>	<p>55. Write 168 as a product of prime numbers.</p>
<p>53. Find the sum of the prime numbers between 56 and 72.</p>	<p>56. Write 252 as a product of prime numbers.</p>

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57. Find all the common factors of 30 and 15 and identify the greatest common factor.

60. Write each number as a fraction with a denominator of 72:
(a) $\frac{1}{2}$ (b) $\frac{1}{3}$

58. Find all the common factors of 24 and 15 and identify the greatest common factor.

61. Write each number as a fraction with a denominator of 20:
(a) $\frac{3}{4}$ (b) $\frac{4}{5}$

59. Find all the common factors of 21 and 66 and identify the greatest common factor.

62. Write each number as a fraction with a denominator of 63:
(a) $\frac{1}{9}$ (b) $\frac{2}{7}$

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63. Reduce $\frac{48}{144}$ to lowest terms.

Simplify:

66. $\frac{4}{7} \cdot \frac{2}{3}$

64. Reduce $\frac{172}{215}$ to lowest terms.

67. $\frac{2}{3} \cdot \frac{2}{5}$

65. Reduce $\frac{22}{66}$ to lowest terms.

68. $\frac{2}{5} \cdot \frac{6}{7}$

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$$69. \frac{3}{2} \cdot \frac{15}{18}$$

$$72. \frac{30}{57} \div \frac{48}{19}$$

$$70. \frac{6}{7} \cdot \frac{54}{66}$$

$$73. \frac{48}{34} \div \frac{40}{17}$$

$$71. \frac{5}{9} \cdot \frac{5}{15}$$

$$74. \frac{70}{33} \div \frac{30}{11}$$

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75. Find all the multiples of 14 that are greater than 20 and less than 60.

78. Convert the following improper fractions to mixed numbers:
(a) $\frac{20}{9}$ (b) $\frac{21}{4}$
(c) $\frac{14}{8}$

Example (a) $\frac{20}{9} = 2 \frac{2}{9}$

76. Find all the multiples of 10 that are greater than 40 and less than 70.

79. Convert the following improper fractions to mixed numbers:
(a) $\frac{20}{7}$ (b) $\frac{17}{12}$
(c) $\frac{26}{12}$

77. Find all the multiples of 5 that are greater than 50 and less than 90.

80. Convert the following improper fractions to mixed numbers:
(a) $\frac{26}{5}$ (b) $\frac{23}{8}$
(c) $\frac{14}{8}$

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81. Convert the following mixed numbers to improper fractions:

(a) $2\frac{11}{39}$ (b) $6\frac{3}{8}$ (c) $4\frac{5}{6}$

Ex. (a) $2\frac{11}{39} = \frac{89}{39}$

Simplify: Remember to find a common denominator

84. $\frac{7}{8} - \frac{1}{9}$

82. Convert the following mixed numbers to improper fractions:

(a) $5\frac{1}{5}$ (b) $7\frac{8}{13}$ (c) $3\frac{3}{4}$

85. $\frac{5}{6} + \frac{1}{8}$

83. Convert the following mixed numbers to improper fractions:

(a) $1\frac{19}{43}$ (b) $7\frac{4}{5}$ (c) $1\frac{41}{49}$

86. $\frac{4}{5} - \frac{1}{4}$

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87. $\frac{3}{4} + \frac{1}{5}$

Simplify:

88. $\frac{8}{9} - \frac{1}{3}$