



**Incoming  
7<sup>th</sup> Grade  
Summer Math Packet  
Madina Academy**

Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

Basic Operations	<p><i>Find each product.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math display="block">\begin{array}{r} 15 \\ \times 15 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>2</b></p> <math display="block">\begin{array}{r} 27 \\ \times 27 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>3</b></p> <math display="block">\begin{array}{r} 74 \\ \times 21 \\ \hline \end{array}</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>4</b></p> <math display="block">\begin{array}{r} 20 \\ \times 13 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math display="block">\begin{array}{r} 86 \\ \times 15 \\ \hline \end{array}</math> </div> </div>	<p><i>Evaluate each expression.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>((13-6))^2+11+6</math> </div> <div style="text-align: center;"> <p><b>3</b></p> <math>10\div 2+4+(2\times 10)</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>2</b></p> <math>[(12\div 3)^2]\times (150-145)</math> </div> <div style="text-align: center;"> <p><b>4</b></p> <math>15\times 1+5+11+5</math> </div> </div>	Other
Fractions	<p><i>Find each difference. Answers should be in simplest form.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>\frac{5}{18} - \frac{1}{6} =</math> </div> <div style="text-align: center;"> <p><b>4</b></p> <math>\frac{7}{18} - \frac{5}{14} =</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>2</b></p> <math>\frac{5}{6} - \frac{1}{2} =</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math>\frac{3}{4} - \frac{1}{5} =</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>3</b></p> <math>\frac{7}{12} - \frac{1}{2} =</math> </div> </div>	<p><i>Find each quotient. Simplify your answer.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>3\frac{1}{2} \div 1\frac{3}{4} =</math> </div> <div style="text-align: center;"> <p><b>4</b></p> <math>2\frac{4}{5} \div 1\frac{1}{5} =</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>2</b></p> <math>2\frac{1}{5} \div 1\frac{1}{5} =</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math>1\frac{1}{5} \div 1\frac{4}{5} =</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>3</b></p> <math>3\frac{13}{14} \div 1\frac{1}{7} =</math> </div> </div>	Fractions
Decimals & Percents	<p><i>Find each quotient.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>6.7\overline{)34.237}</math> </div> <div style="text-align: center;"> <p><b>2</b></p> <math>6.2\overline{)123.318}</math> </div> <div style="text-align: center;"> <p><b>3</b></p> <math>2.1\overline{)17.367}</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>4</b></p> <math>15\overline{)250.5}</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math>11\overline{)131.23}</math> </div> </div>	<p><b>1</b> A cookie-of-the-month subscription costs \$14 each month or \$150 if you pay for the whole year at one time. How much money is saved if you purchase the year at once rather than paying monthly?</p> <p><b>2</b> Dana has 25 songs on her mp3 player. Each song averages 3min 22sec long. If she listens to every song in a row, how much time will it take? Give your answer in hours, minutes and seconds.</p> <p style="text-align: center;">___h ___min ___s</p>	Word Problems

Week: \_\_\_\_\_

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# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

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<b>Basic Operations</b>	<p><i>Find each product.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><math>9 \times 5 =</math></td> <td style="width: 25%;"><math>5 \times 9 =</math></td> <td style="width: 25%;"><math>3 \times 10 =</math></td> <td style="width: 25%;"><math>8 \times 6 =</math></td> </tr> <tr> <td><math>8 \times 8 =</math></td> <td><math>12 \times 3 =</math></td> <td><math>12 \times 1 =</math></td> <td><math>7 \times 11 =</math></td> </tr> <tr> <td><math>8 \times 10 =</math></td> <td><math>9 \times 4 =</math></td> <td><math>10 \times 4 =</math></td> <td><math>5 \times 6 =</math></td> </tr> <tr> <td><math>11 \times 9 =</math></td> <td><math>11 \times 8 =</math></td> <td><math>12 \times 7 =</math></td> <td><math>7 \times 3 =</math></td> </tr> <tr> <td><math>1 \times 9 =</math></td> <td><math>1 \times 11 =</math></td> <td><math>9 \times 6 =</math></td> <td><math>10 \times 6 =</math></td> </tr> </table>	$9 \times 5 =$	$5 \times 9 =$	$3 \times 10 =$	$8 \times 6 =$	$8 \times 8 =$	$12 \times 3 =$	$12 \times 1 =$	$7 \times 11 =$	$8 \times 10 =$	$9 \times 4 =$	$10 \times 4 =$	$5 \times 6 =$	$11 \times 9 =$	$11 \times 8 =$	$12 \times 7 =$	$7 \times 3 =$	$1 \times 9 =$	$1 \times 11 =$	$9 \times 6 =$	$10 \times 6 =$	<p><i>Find each prime factorization of each number.</i></p> <p> <b>1</b> 99                      <b>2</b> 44                      <b>3</b> 275   <b>4</b> 24                      <b>5</b> 297         </p>	<b>Other</b>
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Fractions	<p><i>Find each difference. Simplify your answer.</i></p> <p> <b>1</b> <math>\frac{20}{25} - \frac{20}{25} = \underline{\hspace{2cm}}</math>                <b>4</b> <math>\frac{15}{22} - \frac{15}{22} = \underline{\hspace{2cm}}</math> </p> <p> <b>2</b> <math>\frac{10}{16} - \frac{3}{16} = \underline{\hspace{2cm}}</math>                <b>5</b> <math>\frac{31}{45} - \frac{1}{45} = \underline{\hspace{2cm}}</math> </p> <p> <b>3</b> <math>\frac{3}{6} - \frac{3}{6} = \underline{\hspace{2cm}}</math> </p>	<p><i>Find each quotient. Simplify your answer.</i></p> <p> <b>1</b> <math>1\frac{3}{17} \div 1\frac{7}{48} =</math>                <b>4</b> <math>1\frac{4}{5} \div 9 =</math> </p> <p> <b>2</b> <math>2 \div 1\frac{5}{21} =</math>                <b>5</b> <math>4\frac{2}{3} \div 5 =</math> </p> <p> <b>3</b> <math>1\frac{1}{8} \div 1\frac{1}{4} =</math> </p>	Fractions
Decimals & Percents	<p><i>Write each percent as decimal.</i></p> <p> <b>1</b> <math>50\% =</math>                <b>4</b> <math>47.3\% =</math> </p> <p> <b>2</b> <math>224\% =</math>                <b>5</b> <math>63.8\% =</math> </p> <p> <b>3</b> <math>50\% =</math> </p>	<p> <b>1</b> Ms. Felder is making spaghetti for herself and her 4 children. The noodles cost \$1.82, the tomato sauce costs \$3.09 and the meat is \$6.84. How much does the spaghetti cost per person?         </p> <p> <b>2</b> Six pencils and two erasers cost \$2.42. One pencil and two erasers cost \$0.82. What is the price of each pencil and each eraser?         </p>	Word Problems

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<b>Basic Operations</b>	<p><i>Find each product.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border-right: 1px dashed black; padding: 5px;"><math>8 \times 1 =</math></td> <td style="width: 25%; border-right: 1px dashed black; padding: 5px;"><math>8 \times 9 =</math></td> <td style="width: 25%; border-right: 1px dashed black; padding: 5px;"><math>7 \times 6 =</math></td> <td style="width: 25%; padding: 5px;"><math>7 \times 3 =</math></td> </tr> <tr> <td style="border-right: 1px dashed black; padding: 5px;"><math>4 \times 8 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>3 \times 5 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>1 \times 6 =</math></td> <td style="padding: 5px;"><math>5 \times 9 =</math></td> </tr> <tr> <td style="border-right: 1px dashed black; padding: 5px;"><math>10 \times 12 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>9 \times 8 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>10 \times 12 =</math></td> <td style="padding: 5px;"><math>9 \times 4 =</math></td> </tr> <tr> <td style="border-right: 1px dashed black; padding: 5px;"><math>7 \times 2 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>6 \times 6 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>8 \times 1 =</math></td> <td style="padding: 5px;"><math>1 \times 2 =</math></td> </tr> <tr> <td style="border-right: 1px dashed black; padding: 5px;"><math>8 \times 6 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>6 \times 4 =</math></td> <td style="border-right: 1px dashed black; padding: 5px;"><math>5 \times 9 =</math></td> <td style="padding: 5px;"><math>7 \times 4 =</math></td> </tr> </table>	$8 \times 1 =$	$8 \times 9 =$	$7 \times 6 =$	$7 \times 3 =$	$4 \times 8 =$	$3 \times 5 =$	$1 \times 6 =$	$5 \times 9 =$	$10 \times 12 =$	$9 \times 8 =$	$10 \times 12 =$	$9 \times 4 =$	$7 \times 2 =$	$6 \times 6 =$	$8 \times 1 =$	$1 \times 2 =$	$8 \times 6 =$	$6 \times 4 =$	$5 \times 9 =$	$7 \times 4 =$	<p><i>Find each greatest common factor (GCF).</i></p> <p> <b>❶</b> 84, 140                      <b>❷</b> 24, 72                      <b>❸</b> 27, 108, 45   <b>❹</b> 33, 165                      <b>❺</b> 42, 48         </p>	<b>Other</b>
$8 \times 1 =$	$8 \times 9 =$	$7 \times 6 =$	$7 \times 3 =$																				
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<b>Fractions</b>	<p><i>Find each missing part to make fractions equivalent.</i></p> <p> <b>❶</b> <math>\frac{2}{3} = \frac{14}{\quad}</math>                      <b>❷</b> <math>\frac{1}{\quad} = \frac{7}{14}</math>  <b>❸</b> <math>\frac{\quad}{14} = \frac{27}{126}</math>                      <b>❹</b> <math>\frac{\quad}{15} = \frac{56}{120}</math>  <b>❺</b> <math>\frac{1}{\quad} = \frac{3}{6}</math> </p>	<p><i>Find each quotient. Simplify your answer.</i></p> <p> <b>❶</b> <math>\frac{1}{3} \div 8 = \text{---}</math>                      <b>❷</b> <math>\frac{2}{9} \div 9 = \text{---}</math>  <b>❸</b> <math>\frac{1}{3} \div 6 = \text{---}</math>                      <b>❹</b> <math>\frac{4}{5} \div 2 = \text{---}</math>  <b>❺</b> <math>\frac{8}{12} \div 3 = \text{---}</math> </p>	<b>Fractions</b>																				
<b>Decimals &amp; Percents</b>	<p><i>Write each percent as a <b>simplified</b> fraction.</i></p> <p> <b>❶</b> 30% = <math>\text{---}</math>                      <b>❷</b> 74.4% = <math>\text{---}</math>  <b>❸</b> 15% = <math>\text{---}</math>                      <b>❹</b> 47.5% = <math>\text{---}</math>  <b>❺</b> 14.8% = <math>\text{---}</math> </p>	<p> <b>❶</b> Jan is making paracord bracelets and keychains. He needs 8ft to make a bracelet and 3ft for a keychain. If he has 37ft of paracord, how many bracelets and keychains could he make to use up all of the cord?   <b>❷</b> If Jan wants to make an equal number of bracelets and keychains, how many can he make with 55ft?         </p>	<b>Word Problems</b>																				

Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

Basic Operations	<p><i>Find each difference.</i></p> <p> <b>1</b> <math>659,804 - 227,701</math>              <b>2</b> <math>197,975 - 140,812</math>              <b>3</b> <math>87,763 - 34,133</math> </p> <p> <b>4</b> <math>870,253 - 153</math>              <b>5</b> <math>973,583 - 433,062</math> </p>	<p><i>Find the lowest common multiple (LCM).</i></p> <p> <b>1</b> 10, 7                                <b>2</b> 11, 2                                <b>3</b> 6, 10, 14         </p> <p> <b>4</b> 7, 5                                  <b>5</b> 10, 3         </p>	Other
Fractions	<p><i>Simplify each fraction into lowest terms.</i></p> <p> <b>1</b> <math>\frac{35}{60} = \text{---}</math>                                <b>4</b> <math>\frac{5}{30} = \text{---}</math> </p> <p> <b>2</b> <math>\frac{14}{70} = \text{---}</math>                                  <b>5</b> <math>\frac{10}{30} = \text{---}</math> </p> <p> <b>3</b> <math>\frac{48}{88} = \text{---}</math> </p>	<p><i>Find each sum. Simplify your answer.</i></p> <p> <b>1</b> <math>1\frac{3}{13} + 1\frac{3}{10} =</math>                                <b>4</b> <math>4\frac{7}{20} + 4\frac{9}{11} =</math> </p> <p> <b>2</b> <math>5\frac{2}{7} + 5\frac{6}{7} =</math>                                  <b>5</b> <math>4\frac{13}{14} + \frac{2}{5} =</math> </p> <p> <b>3</b> <math>8\frac{1}{2} + 7\frac{7}{15} =</math> </p>	Fractions
Decimals & Percents	<p><i>Write each fraction as a percent.</i></p> <p> <b>1</b> <math>4\frac{5}{12} =</math>                                        <b>4</b> <math>\frac{1}{6} =</math> </p> <p> <b>2</b> <math>\frac{1}{4} =</math>                                              <b>5</b> <math>3\frac{1}{12} =</math> </p> <p> <b>3</b> <math>\frac{3}{11} =</math> </p>	<p> <b>1</b> Josiah has 15 quarters, 8 dimes and 12 nickels. He wants to buy a snack that costs \$5. Does he have enough money? Explain.         </p> <p> <b>2</b> At the school store a pencil costs \$0.15, a pen costs \$0.30 and a notebook costs \$1.45. Brianna buys 5 pencils and 1 pen. If she brought \$6 to the store, how many notebooks can she buy?         </p>	Word Problems

Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Basic Operations</b>	<p><i>Find each quotient.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><math>30 \div 3 =</math></td> <td style="width: 25%;"><math>42 \div 7 =</math></td> <td style="width: 25%;"><math>36 \div 6 =</math></td> <td style="width: 25%;"><math>1 \div 1 =</math></td> </tr> <tr> <td><math>72 \div 8 =</math></td> <td><math>72 \div 9 =</math></td> <td><math>72 \div 8 =</math></td> <td><math>7 \div 1 =</math></td> </tr> <tr> <td><math>42 \div 7 =</math></td> <td><math>5 \div 1 =</math></td> <td><math>70 \div 7 =</math></td> <td><math>12 \div 4 =</math></td> </tr> <tr> <td><math>27 \div 3 =</math></td> <td><math>12 \div 6 =</math></td> <td><math>60 \div 6 =</math></td> <td><math>42 \div 7 =</math></td> </tr> <tr> <td><math>2 \div 2 =</math></td> <td><math>56 \div 8 =</math></td> <td><math>48 \div 6 =</math></td> <td><math>64 \div 8 =</math></td> </tr> </table>	$30 \div 3 =$	$42 \div 7 =$	$36 \div 6 =$	$1 \div 1 =$	$72 \div 8 =$	$72 \div 9 =$	$72 \div 8 =$	$7 \div 1 =$	$42 \div 7 =$	$5 \div 1 =$	$70 \div 7 =$	$12 \div 4 =$	$27 \div 3 =$	$12 \div 6 =$	$60 \div 6 =$	$42 \div 7 =$	$2 \div 2 =$	$56 \div 8 =$	$48 \div 6 =$	$64 \div 8 =$	<p><i>Fill in the divisibility chart below with "yes" and "no".</i></p> <p>Is 97,650 divisible by each of the given numbers?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td style="height: 20px;"></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <p>Is 42,481 divisible by each of the given numbers?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td style="height: 20px;"></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	1	2	3	4	5	6	8	9	10										1	2	3	4	5	6	8	9	10										<b>Other</b>
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<b>Fractions</b>	<p><i>Find each sum. Answers should be in simplest form.</i></p> <table style="width: 100%;"> <tr> <td style="width: 50%;"><b>1</b> <math>\frac{1}{2} + \frac{2}{5} =</math></td> <td style="width: 50%;"><b>4</b> <math>\frac{3}{5} + \frac{1}{3} =</math></td> </tr> <tr> <td><b>2</b> <math>\frac{1}{3} + \frac{1}{3} =</math></td> <td><b>5</b> <math>\frac{3}{4} + \frac{7}{10} =</math></td> </tr> <tr> <td><b>3</b> <math>\frac{13}{15} + \frac{1}{2} =</math></td> <td></td> </tr> </table>	<b>1</b> $\frac{1}{2} + \frac{2}{5} =$	<b>4</b> $\frac{3}{5} + \frac{1}{3} =$	<b>2</b> $\frac{1}{3} + \frac{1}{3} =$	<b>5</b> $\frac{3}{4} + \frac{7}{10} =$	<b>3</b> $\frac{13}{15} + \frac{1}{2} =$		<p><i>Find each quotient. Simplify your answer.</i></p> <table style="width: 100%;"> <tr> <td style="width: 50%;"><b>1</b> <math>7\frac{1}{2} \times 7\frac{1}{2} =</math></td> <td style="width: 50%;"><b>4</b> <math>14 \times 3 =</math></td> </tr> <tr> <td><b>2</b> <math>4\frac{5}{18} \times 2\frac{1}{10} =</math></td> <td><b>5</b> <math>1\frac{11}{24} \times 1\frac{1}{4} =</math></td> </tr> <tr> <td><b>3</b> <math>2\frac{1}{10} \times 3\frac{3}{5} =</math></td> <td></td> </tr> </table>	<b>1</b> $7\frac{1}{2} \times 7\frac{1}{2} =$	<b>4</b> $14 \times 3 =$	<b>2</b> $4\frac{5}{18} \times 2\frac{1}{10} =$	<b>5</b> $1\frac{11}{24} \times 1\frac{1}{4} =$	<b>3</b> $2\frac{1}{10} \times 3\frac{3}{5} =$		<b>Fractions</b>																																												
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<b>Decimals &amp; Percents</b>	<p><i>Find each quotient.</i></p> <table style="width: 100%;"> <tr> <td style="width: 33%;"><b>1</b> <math>8\overline{)59.52}</math></td> <td style="width: 33%;"><b>2</b> <math>15\overline{)181.5}</math></td> <td style="width: 33%;"><b>3</b> <math>2\overline{)6.8}</math></td> </tr> <tr> <td><b>4</b> <math>12\overline{)110.88}</math></td> <td><b>5</b> <math>6.9\overline{)91.77}</math></td> <td></td> </tr> </table>	<b>1</b> $8\overline{)59.52}$	<b>2</b> $15\overline{)181.5}$	<b>3</b> $2\overline{)6.8}$	<b>4</b> $12\overline{)110.88}$	<b>5</b> $6.9\overline{)91.77}$		<p><b>1</b> Brandon graphs three points on a coordinate plane: (2,8), (0,4) and (3,10). What shape do these points make?</p> <p><b>2</b> Feliciano gets up at 6:33am. It takes him 24 minutes to eat breakfast, 2 minutes to brush his teeth and 7 minutes to get dressed. At what time is he ready for school?</p>	<b>Word Problems</b>																																																		
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Week: \_\_\_\_\_

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# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Basic Operations</p>	<p><i>Find each product.</i></p> <p> <b>1</b> <math>\begin{array}{r} 221 \\ \times 5 \\ \hline \end{array}</math> <b>2</b> <math>\begin{array}{r} 839 \\ \times 5 \\ \hline \end{array}</math> <b>3</b> <math>\begin{array}{r} 794 \\ \times 4 \\ \hline \end{array}</math> </p> <p> <b>4</b> <math>\begin{array}{r} 3522 \\ \times 4 \\ \hline \end{array}</math> <b>5</b> <math>\begin{array}{r} 99 \\ \times 5 \\ \hline \end{array}</math> </p>	<p><i>Fill in the divisibility chart below with "yes" and "no".</i></p> <p>Is 19,103 divisible by each of the given numbers?</p> <table border="1" data-bbox="1121 358 1803 461"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>5</td> <td>10</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p>Is 41,446 divisible by each of the given numbers?</p> <table border="1" data-bbox="1121 532 1803 634"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>5</td> <td>10</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	1	2	3	5	10						1	2	3	5	10						<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Other</p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Decimals &amp; Percents</p>	<p><i>Convert each decimal into <b>simplified</b> fraction form.</i></p> <p> <b>1</b> 0.35 = <math>\text{---}</math> <b>4</b> 0.82 = <math>\text{---}</math> </p> <p> <b>2</b> 0.35 = <math>\text{---}</math> <b>5</b> 0.1 = <math>\text{---}</math> </p> <p> <b>3</b> 0.822 = <math>\text{---}</math> </p>	<p> <b>1</b> Nate is making baby blankets. He needs 40in. of one fabric and 30in. of the second fabric for each blanket. How much fabric does he need to make 10 blankets? Give your answer in feet and inches.         </p> <p> <b>2</b> Lin is 5ft. tall and casts an 8ft. shadow. At the same time of day, a tree casts a 72ft. shadow. How tall is the tree?         </p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Word Problems</p>																				

Week: \_\_\_\_\_

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# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Basic Operations</b>	<p><i>Find each quotient.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><math>42 \div 6 =</math></td> <td style="width: 25%;"><math>2 \div 1 =</math></td> <td style="width: 25%;"><math>2 \div 1 =</math></td> <td style="width: 25%;"><math>30 \div 10 =</math></td> </tr> <tr> <td><math>7 \div 1 =</math></td> <td><math>35 \div 7 =</math></td> <td><math>63 \div 7 =</math></td> <td><math>48 \div 8 =</math></td> </tr> <tr> <td><math>20 \div 4 =</math></td> <td><math>42 \div 6 =</math></td> <td><math>30 \div 10 =</math></td> <td><math>24 \div 8 =</math></td> </tr> <tr> <td><math>7 \div 7 =</math></td> <td><math>80 \div 8 =</math></td> <td><math>40 \div 10 =</math></td> <td><math>8 \div 4 =</math></td> </tr> <tr> <td><math>50 \div 10 =</math></td> <td><math>12 \div 6 =</math></td> <td><math>56 \div 7 =</math></td> <td><math>10 \div 10 =</math></td> </tr> </table>	$42 \div 6 =$	$2 \div 1 =$	$2 \div 1 =$	$30 \div 10 =$	$7 \div 1 =$	$35 \div 7 =$	$63 \div 7 =$	$48 \div 8 =$	$20 \div 4 =$	$42 \div 6 =$	$30 \div 10 =$	$24 \div 8 =$	$7 \div 7 =$	$80 \div 8 =$	$40 \div 10 =$	$8 \div 4 =$	$50 \div 10 =$	$12 \div 6 =$	$56 \div 7 =$	$10 \div 10 =$	<p><i>Use the divisibility rules to answer each question.</i></p> <ol style="list-style-type: none"> <li>❶ Is 553,776 divisible by 10?</li> <li>❷ Is 598,594 divisible by 10?</li> <li>❸ Is 802,073 divisible by 1?</li> <li>❹ Is 184,749 divisible by 10?</li> <li>❺ Is 805,969 divisible by 5?</li> </ol>	<b>Other</b>
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<b>Fractions</b>	<p><i>Find each quotient. Simplify your answer.</i></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">❶ <math>\frac{5}{9} \div \frac{1}{7} = \text{---}</math></td> <td style="width: 50%;">❷ <math>\frac{1}{2} \div \frac{1}{4} = \text{---}</math></td> </tr> <tr> <td>❸ <math>\frac{5}{9} \div \frac{1}{8} = \text{---}</math></td> <td>❹ <math>\frac{6}{9} \div \frac{6}{10} = \text{---}</math></td> </tr> <tr> <td>❺ <math>\frac{4}{5} \div \frac{1}{2} = \text{---}</math></td> <td></td> </tr> </table>	❶ $\frac{5}{9} \div \frac{1}{7} = \text{---}$	❷ $\frac{1}{2} \div \frac{1}{4} = \text{---}$	❸ $\frac{5}{9} \div \frac{1}{8} = \text{---}$	❹ $\frac{6}{9} \div \frac{6}{10} = \text{---}$	❺ $\frac{4}{5} \div \frac{1}{2} = \text{---}$		<p><i>Find each quotient. Simplify your answer.</i></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">❶ <math>2\frac{1}{2} \times 2 =</math></td> <td style="width: 50%;">❷ <math>13\frac{1}{3} \times 2\frac{1}{2} =</math></td> </tr> <tr> <td>❸ <math>2 \times 1\frac{4}{5} =</math></td> <td>❹ <math>1\frac{1}{13} \times 1\frac{27}{50} =</math></td> </tr> <tr> <td>❺ <math>3\frac{1}{2} \times 2\frac{1}{3} =</math></td> <td></td> </tr> </table>	❶ $2\frac{1}{2} \times 2 =$	❷ $13\frac{1}{3} \times 2\frac{1}{2} =$	❸ $2 \times 1\frac{4}{5} =$	❹ $1\frac{1}{13} \times 1\frac{27}{50} =$	❺ $3\frac{1}{2} \times 2\frac{1}{3} =$		<b>Fractions</b>								
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<b>Decimals &amp; Percents</b>	<p><i>Write each fraction as a decimal.</i></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">❶ <math>\frac{1}{12} =</math></td> <td style="width: 50%;">❷ <math>3\frac{4}{5} =</math></td> </tr> <tr> <td>❸ <math>\frac{1}{3} =</math></td> <td>❹ <math>4\frac{9}{10} =</math></td> </tr> <tr> <td>❺ <math>\frac{9}{11} =</math></td> <td></td> </tr> </table>	❶ $\frac{1}{12} =$	❷ $3\frac{4}{5} =$	❸ $\frac{1}{3} =$	❹ $4\frac{9}{10} =$	❺ $\frac{9}{11} =$		<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>❶ A man parachutes from an airplane at an altitude of 12,500ft. He freefalls for about a minute and then pulls the cord at an altitude of 2,315ft. How far did he freefall? <i>Give your answer in feet.</i></p> </td> <td style="width: 50%; vertical-align: top;"> <p>❷ Give your answer for question 1 in kilometers if 1km is approximately 3,280ft. <i>Round your answer to the nearest tenth.</i></p> </td> </tr> </table>	<p>❶ A man parachutes from an airplane at an altitude of 12,500ft. He freefalls for about a minute and then pulls the cord at an altitude of 2,315ft. How far did he freefall? <i>Give your answer in feet.</i></p>	<p>❷ Give your answer for question 1 in kilometers if 1km is approximately 3,280ft. <i>Round your answer to the nearest tenth.</i></p>	<b>Word Problems</b>												
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Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

Basic Operations	<p><i>Find each sum or difference.</i></p> <p> <b>1</b> <math>96,827 - 27,384</math>                <b>2</b> <math>19,991 - 486</math>                <b>3</b> <math>19,038 - 2,569</math> </p> <p> <b>4</b> <math>55,473 - 22,850</math>                <b>5</b> <math>98,745 + 89,414</math> </p>	<p><i>Find each prime factorization of each number.</i></p> <p> <b>1</b> 35                                        <b>2</b> 15                                        <b>3</b> 250         </p> <p> <b>4</b> 9                                           <b>5</b> 16         </p>	Other
Fractions	<p><i>Find each difference. Simplify your answer.</i></p> <p> <b>1</b> <math>\frac{2}{47} - \frac{1}{47} = \underline{\hspace{1cm}}</math>                <b>4</b> <math>\frac{9}{46} - \frac{5}{46} = \underline{\hspace{1cm}}</math> </p> <p> <b>2</b> <math>\frac{10}{29} - \frac{10}{29} = \underline{\hspace{1cm}}</math>                <b>5</b> <math>\frac{23}{27} - \frac{20}{27} = \underline{\hspace{1cm}}</math> </p> <p> <b>3</b> <math>\frac{3}{18} - \frac{3}{18} = \underline{\hspace{1cm}}</math> </p>	<p><i>Find each sum. Simplify your answer.</i></p> <p> <b>1</b> <math>6\frac{4}{5} + 6\frac{5}{14} =</math>                                <b>4</b> <math>9\frac{5}{9} + 9\frac{2}{3} =</math> </p> <p> <b>2</b> <math>5\frac{1}{2} + \frac{4}{5} =</math>                                   <b>5</b> <math>7\frac{3}{5} + 1\frac{1}{3} =</math> </p> <p> <b>3</b> <math>7\frac{1}{2} + 7\frac{3}{5} =</math> </p>	Fractions
Decimals & Percents	<p><i>Write each percent as decimal.</i></p> <p> <b>1</b> 310% =                                        <b>4</b> 43% =         </p> <p> <b>2</b> 91% =                                           <b>5</b> 339.5% =         </p> <p> <b>3</b> 93% =         </p>	<p> <b>1</b> Mr. Burke's class has 25 students. 40% of them are sick on Monday morning. How many children were in class that day?         </p> <p> <b>2</b> Your brother traveled 117 miles in 2.25 hours to visit you. What was his average speed in miles per hour?         </p>	Word Problems

Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Basic Operations</b>	<p><i>Find each product.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math display="block">\begin{array}{r} 57 \\ \times 46 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>2</b></p> <math display="block">\begin{array}{r} 76 \\ \times 52 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>3</b></p> <math display="block">\begin{array}{r} 22 \\ \times 13 \\ \hline \end{array}</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>4</b></p> <math display="block">\begin{array}{r} 22 \\ \times 11 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math display="block">\begin{array}{r} 68 \\ \times 64 \\ \hline \end{array}</math> </div> </div>	<p><i>Fill in the divisibility chart below with "yes" and "no".</i></p> <p style="text-align: center;">Is 91,652 divisible by each of the given numbers?</p> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td style="height: 20px;"></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;">Is 56,359 divisible by each of the given numbers?</p> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td style="height: 20px;"></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	1	2	3	4	5	6	8	9	10										1	2	3	4	5	6	8	9	10										<b>Other</b>
1	2	3	4	5	6	8	9	10																															
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<b>Fractions</b>	<p><i>Simplify each fraction into lowest terms.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>\frac{45}{75} = \text{---}</math> </div> <div style="text-align: center;"> <p><b>4</b></p> <math>\frac{45}{126} = \text{---}</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>2</b></p> <math>\frac{49}{70} = \text{---}</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math>\frac{24}{28} = \text{---}</math> </div> </div> <div style="margin-top: 20px;"> <p><b>3</b></p> <math>\frac{56}{63} = \text{---}</math> </div>	<p><i>Find each quotient. Simplify your answer.</i></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1</b></p> <math>\frac{2}{4} \div 11 = \text{---}</math> </div> <div style="text-align: center;"> <p><b>4</b></p> <math>\frac{6}{7} \div 2 = \text{---}</math> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>2</b></p> <math>\frac{2}{7} \div 6 = \text{---}</math> </div> <div style="text-align: center;"> <p><b>5</b></p> <math>\frac{4}{7} \div 7 = \text{---}</math> </div> </div> <div style="margin-top: 20px;"> <p><b>3</b></p> <math>\frac{2}{3} \div 6 = \text{---}</math> </div>	<b>Fractions</b>																																				
<b>Decimals &amp; Percents</b>	<p><i>Answer each of the following questions on percent.</i></p> <ol style="list-style-type: none"> <li><b>1</b> What is 80% of 250?</li> <li><b>2</b> What is 95% of 335?</li> <li><b>3</b> What is 6% of 220?</li> <li><b>4</b> What is 50% of 210?</li> <li><b>5</b> What is 50% of 190?</li> </ol>	<div style="display: flex;"> <div style="flex: 1; padding-right: 10px;"> <p><b>1</b> A triangle has a base of 12cm and a height of 6cm. A square has a base of 9cm. Which has the larger area? By how much?</p> </div> <div style="flex: 1;"> <p><b>2</b> Darnel is having a cookout. The hamburger patties come in a box of 12 but the hamburger buns come in bags of 8. How many boxes &amp; bags should he purchase so he has an even number of patties and buns?</p> </div> </div>	<b>Word Problems</b>																																				

Week: \_\_\_\_\_

Date: \_\_\_\_\_

# Summer Math

## PreAlgebra

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Basic Operations</p>	<p><i>Find each product.</i></p> <p> <b>1</b> <math>\begin{array}{r} 66 \\ \times 54 \\ \hline \end{array}</math> <b>2</b> <math>\begin{array}{r} 15 \\ \times 10 \\ \hline \end{array}</math> <b>3</b> <math>\begin{array}{r} 26 \\ \times 22 \\ \hline \end{array}</math> </p> <p> <b>4</b> <math>\begin{array}{r} 23 \\ \times 10 \\ \hline \end{array}</math> <b>5</b> <math>\begin{array}{r} 42 \\ \times 21 \\ \hline \end{array}</math> </p>	<p><i>Fill in the divisibility chart below with "yes" and "no".</i></p> <p>Is 6,006 divisible by each of the given numbers?</p> <table border="1" data-bbox="1075 358 1904 461"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <p>Is 78,677 divisible by each of the given numbers?</p> <table border="1" data-bbox="1075 532 1904 634"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	1	2	3	4	5	6	8	9	10										1	2	3	4	5	6	8	9	10										<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Other</p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Decimals &amp; Percents</p>	<p><i>Answer each of the following questions on percent.</i></p> <p> <b>1</b> What is 25% of 35?  <b>2</b> What is 145% of 380?  <b>3</b> What is 6% of 455?  <b>4</b> What is 4% of 465?  <b>5</b> What is 5% of 185?         </p>	<p> <b>1</b> In science class, three beakers contain <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, and <math>\frac{3}{4}</math> cups of a liquid. The teacher pours them all together, and then distributes the liquid evenly between the beakers. How much liquid does each beaker now contain?         </p> <p> <b>2</b> A shipping box of Chocolate Valentine Hearts costs \$65 and contains 13 individually wrapped Valentine Hearts. What is the unit price per Valentine Heart?         </p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Word Problems</p>																																				