

For

## **Fourth Graders Entering Fifth Grade**

Dear Parents and Students:

We are so proud of our fourth grade math students and look forward to having them in fifth grade! In order to maintain academic success, we must continue to learn, practice, and review, even over the summer. By taking time to review and practice essential math skills over the summer, students will create more opportunities to find success the following year, while preventing summer learning loss.

Every student will need to complete a summer math packet. This packet is due on the first day of school and will be counted as the first grade of the quarter. A hard copy of the packet will be given to each student before the end of the year so please make sure to be on the lookout for it. Please wait until the summer to begin working on this packet. If you lose, misplace, or just find yourself in need of another copy, you may find one posted on Renweb or you may access a copy on your child's math Moodle page. We hope this packet will help students feel more confident when returning to school in August. We look forward to seeing you all next year!

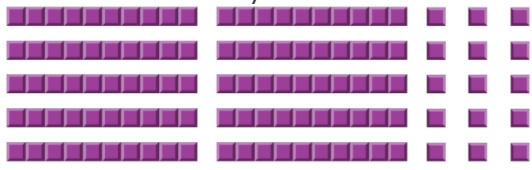
Have a wonderful summer!

## Summer Lesson 1

Write: five hundred seventy six in standard form.	$60,000 + 5000 + 90 + 7$ in standard form
Write: 51,564 in expanded form	Write: 205,049 in expanded form
Given: 658,974 What is the place and value of the 9? Place: _____ Value: _____	Given: 1,254,730 What is the place and value of the 2? Place: _____ Value: _____
Order the following from least to greatest: 31,452 ; 31,425 ; 31,115, 31,568	Order the following from least to greatest: \$25.10 ; \$52.10 ; \$51.20
Round 8,954 to the hundreds place.	Round 54,954 to the ten thousands place.

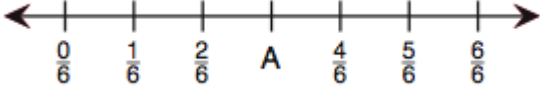
$176 + 24 + 369 + 51 =$	$902,005 - 63125 =$
$\$78.25 + \$29.25 =$	$\$542.65 - \$66.25 =$
$\begin{array}{r} 23589 \\ + 5689 \\ \hline \end{array}$	$\begin{array}{r} 65489 \\ - 989 \\ \hline \end{array}$
$\begin{array}{r} 5687 \\ 568 \\ + 478 \\ \hline \end{array}$	$\begin{array}{r} 500.00 \\ - 89.45 \\ \hline \end{array}$
<p>Mary bought a shirt for \$23.56 and a skirt for \$29.66. How much did she spend? If she paid with a \$100, then how much change did she get back?</p>	<p>John spent \$80.56 at the store. He purchased two items. The shirt he purchased cost \$30.86. How much was the price of the second item?</p>

## Summer Lesson 2

<p>Write a <b>multiplication sentence</b> for the problem.</p> <p>Bryce has 5 bags of marbles. Each bag contains 23 marbles. How many marbles does Bryce have?</p>  <p style="text-align: center;">_____ x _____ = _____</p>	<p>Complete each <b>multiplication</b> or use mental math.</p> <p>7 x 4 tens = _____</p> <p>6 x 2 hundred = _____</p> <p>5 x 2 thousands = _____</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 700 \\ \times 8 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 40 \\ \times 9 \\ \hline \end{array}</math> </div> </div>
<p><b>Multiply</b> with regrouping.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 54 \\ \times 8 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 78 \\ \times 3 \\ \hline \end{array}</math> </div> </div>	<p><b>Estimate</b> to the largest place and multiply.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 593 \\ \times 4 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 1,473 \\ \times 6 \\ \hline \end{array}</math> </div> </div>
<p><b>Multiply</b> 3 digit numbers by 1 digit.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 528 \\ \times 6 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 842 \\ \times 9 \\ \hline \end{array}</math> </div> </div>	<p><b>Multiply</b> money and write the decimal point and dollar sign.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} \\$7.32 \\ \times 4 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} \\$6.15 \\ \times 18 \\ \hline \end{array}</math> </div> </div>
<p><b>Multiply</b> 4 digit numbers by 1 digit.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 6287 \\ \times 3 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 3254 \\ \times 7 \\ \hline \end{array}</math> </div> </div>	<p><b>Estimate</b> each product by <b>rounding</b> each factor to the greatest place.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 31 \\ \times 36 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} \\$5.67 \\ \times 24 \\ \hline \end{array}</math> </div> </div>
<p><b>Multiply</b> by 2 digit numbers.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 22 \\ \times 34 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 81 \\ \times 68 \\ \hline \end{array}</math> </div> </div>	<p><b>Multiply</b> with 3 digit numbers.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 923 \\ \times 37 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 403 \\ \times 56 \\ \hline \end{array}</math> </div> </div>

<p>Find the <b>value</b> of the variable.</p> <p><math>8 = 64 \div r</math>      <math>r =</math> _____</p> <p><math>p \times 5 = 30</math>      <math>p =</math> _____</p> <p><math>56 \div f = 8</math>      <math>f =</math> _____</p>	<p>Find the <b>rule</b> and continue the <b>pattern</b>.</p> <p>6, 12, 18, 24, _____, _____, _____ rule: _____</p> <p>12, 6, 16, 8, 18, _____, _____ rule: _____</p>
<p><b>Divide</b> to find the 1 digit quotients.</p> <p><math>42 \div 8 =</math> _____</p> <p><math>27 \div 5 =</math> _____</p>	<p><b>Divide</b> to find the 2 digit quotient.</p> <p><math>91 \div 7 =</math> _____</p> <p><math>83 \div 3 =</math> _____</p>
<p><b>Divide</b> to find the 3 digit quotient.</p> <p><math>\\$6.25 \div 5 =</math> _____</p> <p><math>978 \div 8 =</math> _____</p>	<p><b>Divide</b> with zeros in the quotient.</p> <p><math>605 \div 6 =</math> _____</p> <p><math>734 \div 7 =</math> _____</p>
<p><b>Divide</b> with larger numbers.</p> <p><math>9219 \div 3 =</math> _____</p> <p><math>\\$87.64 \div 7 =</math> _____</p>	<p>Use the <b>order of operations</b> to solve.</p> <p><math>12 - 4 + 6 \times 3 =</math> _____</p> <p><math>6 \times 4 - 12 \div 2 =</math> _____</p>
<p>Interpret the <b>remainder</b> to solve.</p> <p>Pizzas are to be cut into 8 slices. How many pizzas are needed to serve one slice to each of 185 people?</p> <p>_____ pizzas</p>	<p>Interpret the <b>remainder</b> to solve.</p> <p>If a table seats 7, what is the least number of tables needed to seat 155 people?</p> <p>_____ tables</p>

## Summer Lesson 3

<p>Write each as a <b>fraction</b> or <b>mixed number</b>.</p> <p style="text-align: center;">Three eighths _____</p> <p style="text-align: center;">Four and two tenths _____</p>	<p>Write the fraction <b>represented</b> by the A.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">A = _____</p>
<p>Write whether each fraction is <b>closer</b> to 0, <math>\frac{1}{2}</math>, or 1.</p> <p style="text-align: center;"><math>\frac{1}{8}</math> _____</p> <p style="text-align: center;"><math>\frac{5}{6}</math> _____</p>	<p>Write the <b>equivalent</b> fraction.</p> <p style="text-align: center;"><math>\frac{4}{6} = \frac{\quad}{12}</math></p> <p style="text-align: center;"><math>\frac{2}{3} = \frac{6}{\quad}</math></p>
<p>List all the <b>common factors</b> and circle the <b>GCF</b>.</p> <p style="text-align: center;">8 and 10 _____</p> <p style="text-align: center;">18, 27, and 36 _____</p>	<p>Write each fraction in <b>lowest</b> terms.</p> <p style="text-align: center;"><math>\frac{8}{12} = \frac{\quad}{\quad}</math></p> <p style="text-align: center;"><math>\frac{9}{63} = \frac{\quad}{\quad}</math></p>
<p><b>Compare</b> fractions using <math>&lt;</math>, <math>&gt;</math>, or <math>=</math>.</p> <p style="text-align: center;"><math>\frac{3}{6}</math> _____ <math>\frac{14}{24}</math></p> <p style="text-align: center;"><math>\frac{7}{8}</math> _____ <math>\frac{1}{4}</math></p>	<p>Write in order from <b>least to greatest</b>.</p> <p style="text-align: center;"><math>\frac{1}{8}</math>, <math>\frac{3}{16}</math>, <math>\frac{7}{8}</math> _____</p> <p style="text-align: center;"><math>\frac{1}{2}</math>, <math>\frac{4}{6}</math>, <math>\frac{5}{6}</math> _____</p>
<p><b>Problem solving.</b></p> <p>Marci ate <math>\frac{1}{6}</math> of the apricots, Joe ate <math>\frac{1}{2}</math>, and Phil ate <math>\frac{1}{3}</math>. Who ate the most apricots?</p> <p style="text-align: center;">_____</p>	<p><b>Problem solving.</b></p> <p>Two fifths of the students in Ms. Walsh's third grade class are girls. Are there more girls than boys?</p> <p style="text-align: center;">_____</p>

**Add** or **subtract** fractions with like denominators.

$$\begin{array}{r} \frac{6}{10} \\ - \frac{3}{10} \\ \hline \end{array} \qquad \begin{array}{r} \frac{5}{9} \\ + \frac{2}{9} \\ \hline \end{array}$$

Write as a **whole number** or **mixed number** in simplest form.

$$\frac{27}{9} \quad \underline{\hspace{2cm}}$$
$$\frac{18}{4} \quad \underline{\hspace{2cm}}$$

Find the **difference** in simplest form.

$$\begin{array}{r} \frac{7}{8} \\ - \frac{1}{4} \\ \hline \end{array} \qquad \begin{array}{r} \frac{5}{8} \\ + \frac{2}{16} \\ \hline \end{array}$$

Find the **sum** in simplest form.

$$\begin{array}{r} \frac{5}{8} \\ + \frac{1}{4} \\ \hline \end{array} \qquad \begin{array}{r} \frac{4}{9} \\ + \frac{1}{3} \\ \hline \end{array}$$

Write the least common multiple or **LCM** for each set of numbers.

3, 5, 6 \_\_\_\_\_

2, 4, 5 \_\_\_\_\_

Find the **sum** in simplest form.

$$1\frac{5}{9} + 2\frac{1}{9} = \underline{\hspace{2cm}}$$

Find the **difference** in simplest form.

$$5\frac{7}{10} - 1\frac{3}{10} = \underline{\hspace{2cm}}$$

Find the **probability** of each event.

There are 4 red marbles, 2 black marbles, and 2 green marbles in a box.

$$P(\text{red}) = \underline{\hspace{2cm}}$$

$$P(\text{red or black}) = \underline{\hspace{2cm}}$$

Find the **part** of each number.

$$\frac{1}{4} \text{ of } 8 = \underline{\hspace{2cm}}$$

$$\frac{2}{5} \text{ of } 20 = \underline{\hspace{2cm}}$$

$$\frac{4}{7} \text{ of } 28 = \underline{\hspace{2cm}}$$

Problem **solving**.

Of 32 apples  $\frac{1}{4}$  are red. How many are NOT red?

\_\_\_\_\_ apples

## Summer Lesson 4

Write: $40 + 2 + .09 + 0.07$ in standard form	Write: 205.6 in standard form
Write: 84.73 in expanded form	Write: 53.96 expanded form
Given: 11.38 What is the place and value of the 8? Place: _____ Value: _____	Given: 170.64 What is the place and value of the 6? Place: _____ Value: _____
Order the following from least to greatest: $6.7 ; 6.77 ; 6.07 ; 7.67$	Order the following from least to greatest: $44 ; 4.04 ; 40.4 ; 44.04$
Round 2.20 to the nearest tenth.	Round 71.18 to the nearest one.



$0.9 + 2.9 + 2.86 =$

$10.23 - 6.84 =$

$62 + 0.8 + 22.6 =$

$40.6 - 0.95 =$

$$\begin{array}{r} 17.54 \\ + 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} 92.1 \\ - 6.54 \\ \hline \end{array}$$

$$\begin{array}{r} 92.3 \\ 48.05 \\ + 18.39 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 9.09 \\ \hline \end{array}$$

Val ran the first 100 meters of a 200-meter dash in 15.34 seconds. She ran the next 100 meters in 16.9 seconds. What was Val's time in the 200 meter dash?

Jake was taking a trip from Dallas to San Antonio. The total distance of the trip is 274 miles. After driving 107 miles he stopped for lunch. How much farther does he have to go to reach San Antonio?

# Summer Lesson 5

Write the **place** and **value** of the underlined digits.

46,214

**PLACE**

**VALUE**

\_\_\_\_\_

\_\_\_\_\_

8,235,214

\_\_\_\_\_

\_\_\_\_\_

5,200,874

\_\_\_\_\_

\_\_\_\_\_

Write in **standard** form.

Twenty-one thousand, seven hundred eleven

\_\_\_\_\_

8000 + 50 + 3

\_\_\_\_\_

**Add/subtract** money.

\$16.90  
+\$26.54

\$259.65  
-\$ 65.32

**Multiply.**

648 x 67 = \_\_\_\_\_

45 x 15 = \_\_\_\_\_

**Find** the number that comes between.

50 and 150 \_\_\_\_\_

150 and 250 \_\_\_\_\_

**Given:**

$$6 \overline{) 42}^7$$

What is the **divisor**? \_\_\_\_\_

What is the **dividend**? \_\_\_\_\_

What is the **quotient**? \_\_\_\_\_

Write in **expanded** form.

548,635

\_\_\_\_\_

<p><b>Add.</b></p> $\begin{array}{r} 37 \\ 65 \\ 58 \\ \hline +12 \end{array}$ $\begin{array}{r} 3589 \\ 8336 \\ 4528 \\ \hline +7361 \end{array}$	<p><b>Problem solving.</b></p> <p>The orchard has 17 rows of peach trees. There are 16 trees in each row. Does the orchard have more than 300 peach trees?</p> <p>_____</p>
<p><b>Compare.</b> Use &lt;, &gt;, or =.</p> <p>15,458 _____ 15,587      \$11.52 _____ \$11.25</p>	<p>Write in <b>expanded</b> form.</p> <p>548,635</p> <p>_____</p>
<p><b>Divide and check.</b></p> $3 \overline{) 25}$ $7 \overline{) 87}$	<p><b>Rounding</b> to the underlined digit.</p> <p>\$<u>6</u>5.24 _____</p> <p>1<u>4</u>8,361 _____</p>
<p><b>Problem solving.</b></p> <p>A fence around the orchard is 894 feet long. Every foot of fencing has 3 posts. How many posts are in the fence?</p> <p>_____</p>	<p>Write in order from <b>least</b> to <b>greatest</b>.</p> <p>\$24.25 ; \$24.16 ; \$24.52 ; \$24.61</p> <p>_____</p>
<p>Write the value of the <b>change</b> you would receive.</p> <p>Cost: \$2.79 Amount given: \$5.00</p> <p>_____</p>	<p><b>Estimate</b> by <b>rounding</b> to the greatest place.</p> <p>42 + 56 = _____</p> <p>5219 - 658 = _____</p>

## Summer Lesson 6

<p><b>Compare</b> the units of length.</p> <p style="text-align: center;">4 cm _____ 500 mm</p>	<p>Problem <b>solving</b>.</p> <p>Danny has saved \$15.00 for a birthday present for her mother. She spends \$12.76 for earrings. Does she have enough money to buy a gift bag that costs \$2.98?</p> <p style="text-align: center;">_____</p>
<p><b>Round</b> to the underlined digit.</p> <p style="text-align: center;">7,<u>8</u>68      _____</p> <p style="text-align: center;"><u>2</u>34      _____</p>	<p><b>Write</b> the number in written form.</p> <p style="text-align: center;">345,760</p> <p style="text-align: center;">_____</p>
<p><b>Compare</b> the units of mass.</p> <p style="text-align: center;">3 kg _____ 3,600 g</p>	<p><b>Multiply</b>.</p> $\begin{array}{r} 345 \\ \times 32 \\ \hline \end{array}$
<p><b>Divide</b>.</p> $7 \overline{) 546}$	<p><b>Compare</b> the units of measure.</p> <p style="text-align: center;">10 km _____ 1000 cm</p>
<p><b>Estimate</b> each sum by rounding.</p> $\begin{array}{r} 207 \\ + 365 \\ \hline \end{array}$ $\begin{array}{r} \$40.25 \\ + \$12.78 \\ \hline \end{array}$	<p><b>Multiply</b>.</p> $\begin{array}{r} 789 \\ \times 24 \\ \hline \end{array}$

<p><b>Circle</b> the best estimate.</p> <p>A bottle of water would hold...</p> <p>a. 1 mL      b. 10 mL      c. 1 L</p>	<p><b>Write</b> the number in expanded form.</p> <p style="text-align: center;">4, 827, 100</p> <p style="text-align: center;">_____</p>									
<p><b>Find</b> the missing minuend or subtrahend.</p> <p><math>p - 9 = 18</math>      <math>p = \underline{\hspace{2cm}}</math></p> <p><math>15 - k = 7</math>      <math>k = \underline{\hspace{2cm}}</math></p>	<p><b>Find</b> the sum.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">4</td> <td style="text-align: right;">8</td> <td></td> </tr> <tr> <td style="text-align: right;">+ 8</td> <td style="text-align: right;">5</td> <td style="text-align: right;">82</td> </tr> <tr> <td style="text-align: right;"><u>      </u></td> <td style="text-align: right;"><u>      </u></td> <td style="text-align: right;"><u>      </u></td> </tr> </table>	4	8		+ 8	5	82	<u>      </u>	<u>      </u>	<u>      </u>
4	8									
+ 8	5	82								
<u>      </u>	<u>      </u>	<u>      </u>								
<p><b>Multiply</b> money amounts.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">\$0.36</td> <td style="text-align: right;">\$4.16</td> </tr> <tr> <td style="text-align: right;">x 4</td> <td style="text-align: right;">x 8</td> </tr> <tr> <td style="text-align: right;"><u>      </u></td> <td style="text-align: right;"><u>      </u></td> </tr> </table>	\$0.36	\$4.16	x 4	x 8	<u>      </u>	<u>      </u>	<p>Problem <b>solving</b>.</p> <p>A box of candy has a mass of 525 g. Would two boxes of candy have a mass that is more or less than 1 kg?</p> <p style="text-align: center;">_____</p>			
\$0.36	\$4.16									
x 4	x 8									
<u>      </u>	<u>      </u>									
<p><b>Compare</b> the units of capacity.</p> <p style="text-align: center;">150 L _____ 15,000 mL</p>	<p><b>Subtract.</b></p> <p><math>80025 - 987 =</math></p>									
<p>Problem <b>solving</b>.</p> <p>Alex buys a dog collar and a leash that cost \$11.56. Alex paid with a twenty-dollar bill. How much change should he receive?</p> <p style="text-align: center;">_____</p>	<p><b>Add:</b></p> <p><math>568 + 125 + 36 + 84 =</math></p>									

## Summer Lesson 7

Write $90,000,000 + 500,000 + 10 + 7$ in standard form.	$\begin{array}{r} 38.43 \\ \times \quad 3 \\ \hline \end{array}$
Round \$947.84 to the nearest ten dollars.	$80,000 - 47,789 =$
Given: 54,842 What is the place and value of the 8? Place: _____ Value: _____	$\begin{array}{r} \frac{6}{12} \\ + \frac{3}{4} \\ \hline \end{array}$
$7 \times 88 =$	What is the period of the underlined digits? $56,\underline{784},254$
What is the rule for the following pattern? What number comes next? $55, 48, 41, 34, 27, \underline{\hspace{2cm}}$	Find the value of x. $15 - x = 8$

$$2 \overline{) 546}$$

$$6 \overline{) 2483}$$

$$\begin{array}{r} 54 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 165 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 56.25 \\ 2.98 \\ + 25.36 \\ \hline \end{array}$$

\$36 divided by 40

Brenda bought 8 cupcakes at \$1.59 each and 5 pies at \$5.99 each. How much more did he spend on pies than cupcakes?

The times in seconds for the relay race were 9.97, 10.15, 10.08 and 9.99. How long did it take to run the race?

Beth baby-sits for \$4 an hour. She needs \$112 for a new t.v. How many hours does she need to baby-sit?

Chet, Juan, and Ty walked around the track. Chet walked the farthest. If they walked  $\underline{3}$  mi,  $\underline{2}$  mi,  $\underline{5}$  mi.  
5      5      10  
how far did each boy walk.

## Summer Lesson 8

<p>Round to estimate.</p> $3236 + 5873 + 1884 =$	$85 \times 409 =$
<p>What is the least common multiple of 4 and 6?</p>	<p>Write the improper fraction as a mixed number.</p> $\frac{34}{8}$
<p>Find the value of n in the following expression.</p> $45 - n = 28$	<p>Add and write the answer in simplest form.</p> $\begin{array}{r} \frac{10}{14} \\ + \frac{5}{7} \\ \hline \end{array}$
<p>Divide.</p> $\$36 \div 4 =$	<p>Sue ran 6.65 miles in week 1 and 5.48 miles in week 2. How much farther did she run in week 1?</p>
<p>What is the value of the 7 in 692.71</p>	<p>Jessica bought 3 bags of chips for \$1.98 each and 2 bottles of soda for \$2.50 each. How much did she spend?</p>



$$\begin{array}{r} 582 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 5678 \\ \times 61 \\ \hline \end{array}$$

$$\begin{array}{r} 256345 \\ + 89548 \\ \hline \end{array}$$

$$\begin{array}{r} 500871 \\ - 8954 \\ \hline \end{array}$$

$954 \times 25 =$

Joe went to the store and spent a total of \$37.84. If he paid with a \$50, then how much change did he get back?

The dividend is 456. The quotient is 76. What is the divisor?

$$\frac{9}{10} - \frac{1}{2}$$

What is the GCF (greatest common factor) of 24 and 16?

Ann pays \$11.96 for 4 plants. How much does each plant cost?