St. Luke's Math Packet
Fourth Graders Entering Fifth Grade

Due the First Day of School

Dear Parents and Students:

I am so proud of the fourth graders. I know they will be excellent fifth grade students. In order to maintain academic success, we must continue to learn, practice, and review over the summer. By taking time to review and practice essential skills over the summer. Practice will allow the students 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 school year. A hard copy is enclosed within this packet. If you lose, misplace or just find yourself in need of another copy, you may find it posted on the school website. You may also contact the school office to get another copy.

Have a wonderful summer!

Summer Lesson 1

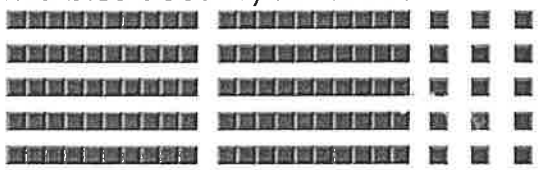
Write: five hundred seventy six in standard form.	60,000 + 5000 + 90 + 7 in standard form
Write: 51,564 in expanded form	Write: 205,049 in expanded form
Given: 658,974 What is the place and value of the 9? Place:_____ Value: _____	Given: 1,254,730 What is the place and value of the 2? Place:_____ Value: _____
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 =
23589 + 5689	65489 - 989
5687 568 + 478	500.00 - 89.45
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?	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?

Summer Lesson 2

Write a **multiplication sentence** for the problem.

Bryce has 5 bags of marbles. Each bag contains 23 marbles. How many marbles does Bryce have?



_____ x _____ = _____

Complete each **multiplication** or use mental math.

7 x 4 tens = _____

6 x 2 hundred = _____

5 x 2 thousands = _____

700	40
x 8	x 9

Multiply with regrouping.

54	78
x 8	x 3

Estimate to the largest place and multiply.

593	1,473
x 4	x 6

Multiply 3 digit numbers by 1 digit.

528	842
x 6	x 9

Multiply money and write the decimal point and dollar sign.

$7.32	$6.15
x 4	x 18

Multiply 4 digit numbers by 1 digit.

6287	3254
x 3	x 7

Estimate each product by **rounding** each factor to the greatest place.

31	$5.67
x 36	x 24

Multiply by 2 digit numbers.

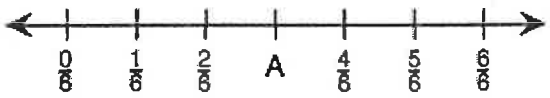
22	81
x 34	x 68

Multiply with 3 digit numbers.

923	403
x 37	x 56

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

Summer Lesson 3

Write each as a **fraction** or **mixed number**. Three eighths _____ Four and two tenths _____	Write the fraction **represented** by the A.  A = _____
Write whether each fraction is **closer** to 0, ½, or 1. $\frac{1}{8}$ _____ $\frac{5}{6}$ _____	Write the **equivalent** fraction. $\frac{4}{6} = \frac{\quad}{12}$ $\frac{2}{3} = \frac{6}{\quad}$
List all the **common factors** and circle the **GCF**. 8 and 10 _____ 18, 27, and 36 _____	Write each fraction in **lowest** terms. $\frac{8}{12}$ = _____ $\frac{9}{63}$ = _____
Compare fractions using <, >, or =. $\frac{3}{6}$ _____ $\frac{14}{24}$ $\frac{7}{8}$ _____ $\frac{1}{4}$	Write in order from **least to greatest**. $\frac{1}{8}, \frac{3}{16}, \frac{7}{8}$ _____ $\frac{1}{2}, \frac{4}{6}, \frac{5}{6}$ _____
Problem **solving**. Marci ate 1/6 of the apricots, Joe ate 1/2 , and Phil ate 1/3. Who ate the most apricots? _____	Problem **solving**. Two fifths of the students in Ms. Walsh's third grade class are girls. Are there more girls than boys? _____

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

$\frac{6}{10} - \frac{3}{10} =$ _____

$\frac{5}{9} + \frac{2}{9} =$ _____

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

$\frac{27}{9} =$ _____

$\frac{18}{4} =$ _____

Find the **difference** in simplest form.

$\frac{7}{8} - \frac{1}{4} =$ _____

$\frac{5}{8} + \frac{2}{16} =$ _____

Find the **sum** in simplest form.

$\frac{5}{8} + \frac{1}{4} =$ _____

$\frac{4}{9} + \frac{1}{3} =$ _____

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

3, 5, 6 _____

2, 4, 5 _____

Find the **sum** in simplest form.

$1\frac{5}{9} + 2\frac{1}{9} =$ _____

Find the **difference** in simplest form.

$5\frac{7}{10} - 1\frac{3}{10} =$ _____

Find the **probability** of each event.

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

P (red) = _____

P (red or black) = _____

Find the **part** of each number.

¼ of 8 = _____

$\frac{2}{5}$ of 20 = _____

$\frac{4}{7}$ of 28 = _____

Problem **solving**.

Of 32 apples ¼ 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 tip 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.

	PLACE	VALUE
46,2<u>1</u>4	_____	_____
<u>8</u>,235,214	_____	_____
5,2<u>0</u>0,874	_____	_____

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:

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

What is the **divisor**? _____

What is the **dividend**? _____

What is the **quotient**? _____

Write in **expanded** form.

548,635

_____

Add.

$$\begin{array}{r} 37 \\ 65 \\ 58 \\ +12 \\ \hline \end{array} \qquad \begin{array}{r} 3589 \\ 8336 \\ 4528 \\ +7361 \\ \hline \end{array}$$

Problem **solving.**

The orchard has 17 rows of peach trees. There are 16 trees in each row. Does the orchard have more than 300 peach trees?

_____

Compare. Use <,>, or =.

15,458 _____ 15,587 $11.52 _____ $11.25

Write in **expanded** form.

548,635

_____

Divide and **check.**

3 ⟌ 25 7 ⟌ 87

Rounding to the underlined digit.

$\underline{6}5.24$ _____

1$\underline{4}$8,361 _____

Problem **solving.**

A fence around the orchard is 894 feet long. Every foot of fencing has 3 posts. How many posts are in the fence?

_____

Write in order from **least** to **greatest.**

$24.25 ; $24.16 ; $24.52 ; $24.61

_____

Write the value of the **change** you would receive.

Cost: $2.79
Amount given: $5.00

_____

Estimate by **rounding** to the greatest place.

42 + 56 = _____

5219 – 658 = _____

Summer Lesson 6

Compare the units of length.

4 cm _____ 500 mm

Problem **solving**.

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?

_____

Round to the underlined digit.

7,<u>8</u>68 _____

<u>2</u>34 _____

Write the number in written form.

345, 760

_____

Compare the units of mass.

3 kg _____ 3,600 g

Multiply.

$$\begin{array}{r} 345 \\ \times\ 32 \\ \hline \end{array}$$

Divide.

$7\overline{)546}$

Compare the units of measure.

10 km _____ 1000 cm

Estimate each sum by rounding.

$$\begin{array}{r} 207 \\ +365 \\ \hline \end{array} \qquad \begin{array}{r} \$40.25 \\ +\ \$12.78 \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} 789 \\ \times\ 24 \\ \hline \end{array}$$

Circle the best estimate. A bottle of water would hold... a. 1 mL b. 10 mL c. 1 L	**Write** the number in expanded form. 4, 827, 100 _____
Find the missing minuend or subtrahend. p – 9 = 18 p = _____ 15 – k = 7 k = _____	**Find** the sum. 4 + 8 = 8 + 5 = 82 + 45 =
Multiply money amounts. $0.36 x 4 $4.16 x 8	Problem **solving**. 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? _____
Compare the units of capacity. 150 L _____ 15,000 mL	**Subtract**. 80025 – 987 =
Problem **solving**. 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? _____	**Add**: 568 + 125 + 36 + 84 =

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: _____	$\begin{array}{r} \ 6 \\ \ 12 \\ + \ \ 3 \\ \hline \ 4 \end{array}$
7 x 88 =	What is the period of the underlined digits? 56,<u>784</u>,254
What is the rule for the following pattern? What number comes next? 55, 48, 41, 34, 27, _____	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 9.97,10.15,10.08and 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 $\frac{3}{5}$ mi, $\frac{2}{5}$ mi, $\frac{5}{10}$ how far did each boy walk.

Summer Lesson 8

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

$\begin{array}{r} 582 \\ \times\ 27 \\ \hline \end{array}$	$\begin{array}{r} 5678 \\ \times\ 61 \\ \hline \end{array}$
$\begin{array}{r} 256345 \\ +\ 89548 \\ \hline \end{array}$	$\begin{array}{r} 500871 \\ -\ 8954 \\ \hline \end{array}$
$954 \times 25 =$	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?