Name: _____

UNIT 1 PLACE VALUE

1. What number is 10,000 more than 995,000?

2. What fraction is equal to 0.42?

3. What decimal is equal to $\frac{2}{10}$?

4. Who crossed the finish line first? Rank in order from least to greatest.

Mariel	12.074
Louis	12.07
Xavier	12.407

5. Write the following number in expanded form: 3.0425

6. Label each place value: 360.872

7. Write the number: Seven hundred six thousand, eight hundred forty-four and one hundred twelve thousandths.

8. <, > or =? 5.46 and 5.463

9. How much greater is 24,678 than 24,067?

UNIT 2

1. What is 14.873 Rounded to the nearest hundredth?

2. I have $25 to go to the movie theater. If I spend $9.75 on my ticket
And $6.50 on popcorn, how much change will I take home?

Name: _____

3. Circle the clue words in #2 and explain what they mean

4. Jordan finished the race in 8.12 seconds and Kaitlyn finished in 11.9 seconds.
   About how many seconds less did Jordan run than Kaitlyn?

Apples	1,257 pounds
Pears	881 pounds
Bananas	2,036 pounds
Grapes	1,120 pounds

5. How many fewer pounds of apples than grapes were delivered?

6. If the delivery truck can carry a maximum of 5,000 pounds, were all of the
   items carried in one trip? Please answer yes or no and explain your answer.

7. What is the sum of 124,658 and 16,739?

8. What is the difference between 1.53 and 0.471?

9. A car is on sale for $11,452. What is the sale price rounded to the nearest hundred?

10. There are 74 breeds of dog at the competition. There are three classes of dogs
    represented. If 23 are in the working group and 35 are in the sporting group,
    how many breeds are in the herding group? **Write an equation** to represent
    the situation.

11. **Lunch Menu**

Line A	Line B
Cheeseburger $2.50	Cheese pizza $2.25
Caesar salad $1.75	French fries $1.25
Chocolate milk $ .50	Smoothie $1.85

There are two lunch lines to choose from. Which line is less expensive? By how much?

Name: _____

UNIT 3

1. If I divide any number by 100, what happens to the place value?

   _____

   _____

2. What is the solution to: 30 x 50 x 60 x 10?   (show all work)

3. List the factors of 48

4.   437
   <u>x   6</u>

5. 82
   <u>x 34</u>

6. 285
   <u>x 16</u>

CHECK: check #4-6 with division by working backwards! Follow template and show work.

4b. _____ ÷ 6 = 437

5b. _____ ÷ 34 = 82

6b. _____ ÷ 16 = 285

Name: _____

UNIT 4 & 5 ****Please use decimal remainders****

Divide	**Check with Multiplication**

1. 447 ÷ 5

2.

3. 2654 ÷ 8

4.

5. 2500 ÷ 12

6.

7. 56000 ÷ 80

8. 3000 ÷ 100

9. List the factors of 42

10. Mrs. Ivanov needs to bring 36 muffins to a staff meeting. According to the menu, does it make more sense to buy them separately or by the dozen?

Muffins	**Price**
1	$2.40
1 dozen (12 muffins)	$25.00

Name: _____

Unit 6/7

Compare using >, < or = using common denominators AND butterfly method!

1. 3/7 _____ 4/10

2. 2/8 _____ 4/15

Multiply or divide

3. 12.84 x 10   _____

4. 12.57 ÷ 100   _____

5. 124.2 ÷ 9   _____

6. 33.7 x 5.2   _____

7. 406.2 ÷ 30   _____

8. 0.642 x 4.8   _____

Simplify

9. $\frac{12}{18}$

10. $\frac{5}{25}$

11. What is $\frac{6}{15}$ as a decimal?

12. 12 ÷ (6 - 3) x 3.5 + 10

Name: _____

Unit 9 Fractions

1. What number makes the equation true? $\frac{?}{6} = \frac{8}{12}$

2. What is $7\frac{1}{6}$ as an improper fraction?

3. Write $\frac{10}{3}$ in expanded form **and** as a mixed number

4. What is $\frac{8}{3}$ as a decimal?

5. Compare using <, >, or =: $\frac{8}{5}$ _____ $1\frac{2}{3}$

6. Order from least to greatest: 2.5 , $2\frac{1}{4}$, $\frac{14}{6}$

7. **Service Project participation**

6th grade	18 students
7th grade	18 students
8th grade	12 students

   What fraction of participants were NOT 8th graders? Please simplify your answer.

8. 0.04 as a fraction is _____

9. $\frac{2}{5}$ as a decimal is _____

10. 5.75 as a mixed number is _____

11. $6\frac{35}{50}$ as a decimal is _____

Name: _____

Unit 10/11 ****Please show your work, borrowing and carrying, etc.****

1. What is the Greatest Common Factor (GCF) of 24 and 42?

2. $4\frac{2}{3}$
    $+5\frac{2}{3}$
    _____

3. $11\frac{3}{4}$
    $+6\frac{1}{2}$
    _____

4. $8\frac{4}{9}$
    $+7\frac{8}{9}$
    _____

5. $9\frac{2}{3}$
    $+12\frac{2}{5}$
    _____

6. $8\frac{1}{2} - 2\frac{5}{8}$

7. $10\frac{3}{4} - 6\frac{1}{10}$

8. $\frac{2}{8} + \frac{7}{24}$

9. $\frac{4}{5} - \frac{3}{8}$

10. $\frac{1}{2} + \frac{1}{3} - \frac{2}{6}$

11. $8 \times \frac{5}{6}$

12. $5\frac{3}{4} \times \frac{1}{3}$

13. Write $3\frac{1}{4}$ as an improper fraction and as a decimal

14. Use "Keep Change Flip" to solve $\frac{1}{3} \div \frac{3}{8}$.

Name: _____

Unit 14 Conversions and Time Change

Conversion Chart:

1 lb.	___ oz
1 Ton	___ lb
1 gal	___ qt
1 qt	___ pints
1 pint	___ cups
1 cup	___ fl. oz
1 foot	___ inches
1 yard	___ feet

1. 4 gallons are equal to how many quarts? 1. ____ quarts

2. 1 pint is equivalent to how many fluid ounces? 2. ____ fl. oz

3. If Elon is 54 inches tall, how many feet tall is he? 3. ____ ft ____ in

4. What is 56 ounces in pounds? 4. ____ lb ____ oz

5. 9,000 pounds are equal to how many tons? 4. ____ Tons

6. If my job starts at 11:15pm and ends at 6:30am, how long is my shift? 6. _____

Name: _____

Fraction Mixed Practice Review

Write each fraction as a decimal

1. 3/10 = _____   2. 5/8 = _____

3. 1/6 = _____   4. 12/25 = _____

5. 2/3 = _____   6. 7/9 = _____

Write each decimal as a fraction and simplify as needed

7. 0.60 = _____   8. 0.150 = _____

9. 0.08 = _____   10. 0.42 = _____

Compare each set of values using <, > or =

11. 6.8 ____ $6\frac{3}{5}$ 12. $\frac{3}{15}$ _____ $\frac{5}{30}$

CHALLENGE: Fraction to decimal to percent

13. 75/100 = _____ = ____%

14. 2/8   = _____ = ____%

CHALLENGE: Mixed Number to improper to decimal

Example: $2\frac{1}{5}$ = $\frac{11}{5}$ (circle of math) = _2.2_ (whole number, decimal, fraction as decimal)

15. $3\frac{8}{50}$ = _____ = _____

Rising 6th Grade
Summer Math Packet

Name: _____