Summer Assignment for incoming 7th grade students – Greenwood Lakes Middle School

Name: _____

Command of the topics in this assignment are important to be successful in 6th grade Math. All problems should be attempted and show understanding of concepts to be successful in 6th grade math. There is NO CALCULATOR to be used on this assignment. This assignment will be due the week of August 10, a specific date will be given by your teacher.

Please SHOW all work on separate sheet of paper!

Change the mixed numbers to fractions greater than 1 (improper fractions) EX. $3\frac{1}{8} = 3 \times 8 + 1 = 25 \quad \frac{25}{8}$

1) $2\frac{4}{5}$ 2) $1\frac{2}{3}$ 3) $12\frac{5}{7}$

Change the fractions greater than 1 (improper fractions) to mixed numbers. $\frac{47}{5} = 47 \div 5 = 5\overline{)47}^{\,9} = 9\frac{2}{5}$ (remainder $\frac{45}{2}$)

4) $\frac{8}{3}$ 5) $\frac{56}{12}$ 6) $\frac{34}{9}$

Computations with fractions

**to add/subtract – must have common denominator

**multiply- multiply straight across

** divide – multiply by the reciprocal

7) $\frac{5}{6}+\frac{2}{3}$ 8) $1\frac{3}{4}+2\frac{1}{6}$ 9) $\frac{7}{8}-\frac{1}{2}$ 10) $3\frac{1}{2}-1\frac{7}{8}$

11) $\frac{5}{9} \times \frac{3}{10}$ 12) $6\frac{1}{2} \times \frac{2}{3}$ 13) $\frac{7}{8} \div \frac{3}{4}$ 14) $\frac{5}{6} \div 2$

Computations with decimals

**to add/subtract – line up decimals

**multiply- multiply by normal, move decimals to the left the number of decimal places in both factors

** divide – move decimal in divisor until whole number, do the same in dividend, divide until there isn't a remainder.

15) $3.5 + 6.14$ 16) $9.242 + 0.87$ 17) $12.66 - 3.41$ 18) $35.8 - 10.27$

19) 0.7×0.4 20) 4.56×9.2 21) $9\overline{)211.5}$ 22) $134 \div 4$

Simplify

23) 4w + 5n + 8 + 2w – 4n + 9 24) 5 (3r – 4) + 6r + 28 25) $3m^2 + 5m - m^2 + m + 3$

Solve the equation

26) 14 = d – 6 27) 5 + c = 10 28) $5m = 11$ 29) $\frac{f}{6} = 2$

30) Gabriella spent $60 on 5 tickets. Find the cost per ticket. _____

31) If 8 tiles cost $12, how much would 10 tiles cost? _____