6th Grade Summer Math

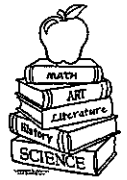
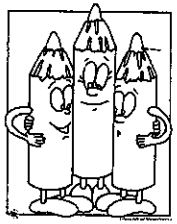
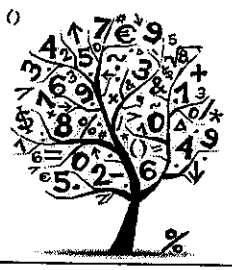
When completing the attached questions, please make sure that you follow these directions:

- Place only the answers on your worksheets.
- All work must be numbered and neatly shown on separate sheets of loose-leaf paper for EACH problem.
- Due Wednesday, August 15th to your new math teacher.
- This will count as your first quiz grade.

Thank you!

Name:_____

6th GRADE SUMMER MATH

June 10th – 16th	Which fraction is equivalent to $\frac{10}{15}$? $\frac{11}{16}$ $\frac{2}{3}$ $\frac{100}{200}$ $\frac{8}{13}$	Use <, >, or = to fill in the blank. 4.2 _____4.19	Compute: $3+(4\times6)$	Write the number 47.785 in expanded form	There are 14 boys and 10 girls in the classroom. What is the fraction of students in the classroom who are girls?	**Weekend Work:** List as many situations you can think of that can be described or represented using negative numbers. 
June 17th – 23rd	Which pattern follows the rule: multiply the previous number by 4 and then add 2 to the result A. 1, 3, 5, 7 B. 1, 10, 14, 18 C. 1, 6, 26, 106 D. 1, 6, 104, 424	Find the greatest common factor for 24 and 16. 	compute: $(6+3)^2$	Determine the pattern and identify the next number. 1,8,15,22,... 	The expression below shows the total cost of Δ adult tickets and μ child tickets to a movie. (μ x 9.00) + (Δ x 7.50) What is the total cost of 12 adult tickets and 10 child tickets?	**Weekend Work:** Play this game with a family member. Take two coins. Flip them both. Player 1 wins if one is heads and one is tails. Player 2 wins if they are both heads. Flip again if they are both tails. Play 10 times. Is it a fair game?
June 24th – 30th	What is 24.2 + 36.145?	What is 7.1 - 0.8?	What is 41 – 0.052?	From the list of numbers below, which is the largest number? 4.4, 2.3, 4, 3.6	What is 7.9 x 0.83?	**Weekend Work:** Use each of the digits 0-9 exactly once. Make two decimal numbers whose sum is close to 5 and who difference is close to 1.
July 1st – 7th	What number should go between 35 and 61 in the following arithmetic progression? 35, ___, 61, 74, 87	Sam is 37 years older than Dennis. If Sam is 55 years old now, how old is Dennis?	From the following integers, which integer is the largest? -4, 2, 8, -10	What is 8 x 4.57? 	The total weight of a shipment of 15 boxes is 2,250 lbs. Each box has the same weight. How many lbs. did one box weigh?	**Weekend Work:** Using the digits 5-9 make the largest product possible. ___ ___ x ___ ___ =

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Name:_____

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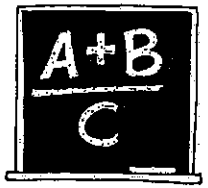
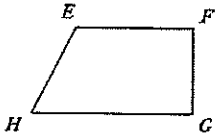
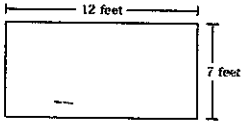
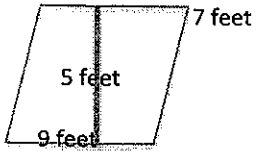
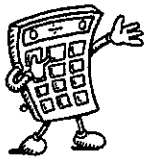
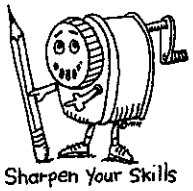
July 8th – 14th	Rosa volunteered at a local nursing home for 20 days. She worked for 1 1/4 hours each day. How many total hours did Rosa volunteer at the nursing home?	Which number is divisible by 3? A. 82 B. 157 C. 116 D. 83 E. 132	**8** is what percent of **10**? 	What is the prime factorization of 42?	Compute: 3 + (-21)	**Weekend Work:** Make the smallest 3 digit number that has factors 2, 3, 4, 5
July 15th – 21st	A garden snail can travel about 5 feet in 2 minutes. At this speed, how far can it travel in one **hour**?	The circular ring of a circus has a radius of 10 feet. What is the diameter, in feet, of the ring?	Elsa drew the quadrilateral shown below.  Which angle appears to be acute?	Ms. Lindquist bought a rug with the dimensions shown below.  What is the area, in square feet, of the rug?	What is the perimeter of the figure below? 	**Weekend Work:** Is every square a rectangle? Explain.
July 22nd – 28th	Convert 0.74 into a fraction. 	Convert 4/12 into a decimal.	225 students have hamburger as their favorite food. This is 25% of the total surveyed. How many students in total were surveyed?	Which of the following fractions is the greatest. 3/4, 2/9, 3/8, 2/10	What is 75% of 50? 	**Weekend Work:** Ask your parents to go out to dinner. When the bill comes, offer to calculate the tip (15% - 20%). Price of meal: Tip: Total:
July 29th – August 4th	What is 31,169 rounded to the nearest ten-thousand? 	Jordan has a machine part that is thirty-two thousandths of an inch thick. What is thirty-two thousandths written as a decimal?	Round the following number to the tenths place 6.92. 	Round the following number to the hundredths place 6.896.	Melissa worked on a subtraction problem. When she rounded each number to the nearest whole the difference was 8. What was the subtraction problem? a. 24.89 – 16.16 b. 24.89 – 16.38 c. 24.89 – 17.16 d. 24.89 – 17.68	**Weekend Work:** Kate is thinking about a four-digit number. The hundreds place is a multiple of three. All the digits are odd. The ones digit is the same as the thousands digit. The thousands place is two greater that the hundreds place. And, the tens place is the product of 3 and 3.

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