

Summer Math Activities for Students Entering 6th Grade - July

I am an even, 3 digit palindrome. (ex. 464). The product of the digits is 8. What number am I?	What is the value of 75 hundreds and 18 tens?	Use the five digits 4, 5, 6, 7 and 8 to write the largest number that is less than 600. What is the value of the 4 in your number?	Due to air traffic the pilot of a plane said she was lowering the plane's altitude 10,000 ft. Once lowered, the altitude was 29,756 ft. Which digit(s) are the same in the current altitude and the original altitude? Explain why.	Create a five digit number where the digit in the hundredths place is the sum of the other digits. Write your number in standard form and in expanded form.	Write the following as decimals: 6 $\frac{3}{10}$ 17 $\frac{18}{100}$ 62 $\frac{1}{2}$ 43 $\frac{8}{100}$ 1 $\frac{3}{4}$	Put these numbers in order from least to greatest: $\frac{1}{3}$, 0.5, 0.97, $\frac{3}{4}$, 0.01, 0.1, $\frac{2}{5}$
Trey wanted to estimate the sum of 5 $\frac{8}{10}$ and 8 $\frac{9}{10}$. Which is a better estimate 13 or 15? Explain your answer.	Jillian earns about \$23 a week moving lawns and babysitting. If she started working on July 6, when will she have about \$100?	About how many $\frac{1}{2}$ pints can you get from 34 gallons of ice cream? Explain your answer.	Bob has a handful of coins. The value is \$6.43. He had quarters, dimes, nickels and pennies. Explain why he could not have 64 dimes. How many of each coin could he have?	Using the five numbers 8, 9, 10, 11, and 12 what is the largest proper fraction that can be written? What is the smallest fraction? What is the sum of the two fractions?	Build the Number; Put a 0 in the one's place; Put a 3 in the tens place; Put a 5 in the tenths place; Put a 2 in the hundreds place; Put a 1 in the hundredths place.	Kate's garden is in the shape of a square with a perimeter of 32 feet. What is the area of her garden?
A grocery scale shows the weight of 3 pounds. What one item in the produce section could be on the scale? Explain your answer.	A fisherman's line got stuck in seaweed, so he had to cut the line. He started with 200 yds. But now has 540 ft. left. How many yards of line did he lose? Explain.	Joe ran $\frac{1}{2}$ mile on Tuesday & 1760 ft. on Wednesday. Which day did he run the farthest? Explain your answer.	A recipe for hot chocolate calls for 1 c. milk, 2t of cocoa & $\frac{1}{4}$ t of sugar. If Mia uses a full teaspoon of sugar, how much milk should she use to keep the same recipe? Explain your answer.	Trena bought 3 lbs of grapes. How many oz. of grapes did Trena have left after giving her sister 1 lb 3 oz of the grapes?	Write a multiplication word problem whose answer is 354. Have someone solve it.	It costs \$1.70 to ride the bus. If you ride 2 times a day for the month of July, how much would you spend?
If the average song is 3.5 minutes, about how many songs can you listen to in half an hour? Explain two different ways to get an answer.	Which is the best buy for apples? a. 5 lbs for \$8 b. 3 lbs. for \$3.90 c. 1 lb. for \$1.36 d. 2 lbs. for \$2.50 Explain your answer.	One yard minus $\frac{2}{3}$ ft. equals how many inches?	Express the number 50 in at least 20 different ways. You may use all 4 operations and include fractions and decimals.	Fill in the blanks to make the story true. Sam has ___sacks. In each sack, he has ___ boxes. In each box, he has ___apples. He has 24 apples in all.	Record the projected high temperatures for the next 5 days. What is the mean, median, mode and range of your data?	Joe swam 3 laps each day and Tom swam four times as many laps as Joe each day. How many laps did Tom swim in 7 days?