MATH STUDY GUIDE   UNIT ONE   PLACE VALUE.

~ Goal; understand and use a place value chart through one million place.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

~ What is the value of an eight in the ten thousands place? [80,000]

~ What is the written form for the numeral 1, 929, 390?

   [one million, nine hundred twenty nine thousand, three hundred ninety]

~ What is the standard form of the above number?   1, 929,390

~ What is the expanded form? 1,000,000 + 900,000 + 20,000 + 9,000 + 300 + 90

~ Can you tell the expanded form, word form, and standard form of a number that goes through the millions place?
        Example: 4,590,457 (this is standard form)
        Expanded form: 4,000,000 + 500,000 + 90,000 + 400 + 50 + 7
        Word form: four million, five hundred ninety thousand, four hundred fifty-seven

~ Do you know the names of the places and their values? (You need to be able to apply this information.)
     1,000,000 (Millions,) 100,000 (Hundred Thousands,) 1,000 (Thousands,)
     100 (Hundreds,) 10 (Tens,) 1 (Ones.)

~ Do you know the difference between an odd number (1, 3, 5, 7, 9) and an even number (0, 2, 4, 6, 8)?

~ Can you compare numbers?
        235,102 > 234,102   2,058,385 < 2,058,435

     Greater than/less than statements:

     24,993 > 24, 889

     What is the true statement?   83,039 < 12,394   OR 82, 483 > 66,493

~ Can you analyze a number and determine what it is closest to without a number line?

~ Can you use a rounding strategy such as that listed below to round to a specific place?

     What is 8,035 rounded to the nearest ten? (8,040)

     What is 3,492,045 rounded to the nearest million? (3,000,000)

~ Can you look at a rounded number and determine which number would round to that number? Can you *clearly* explain your reasoning for the choice you made?

     Example: Which of these would round to 3,200? *How do you know?*
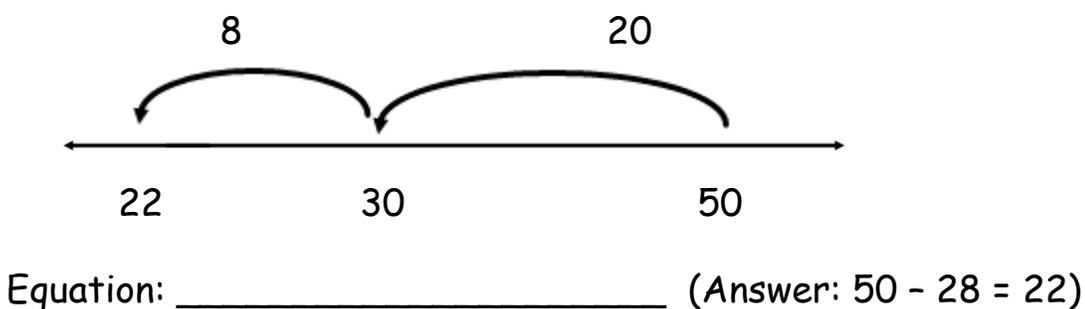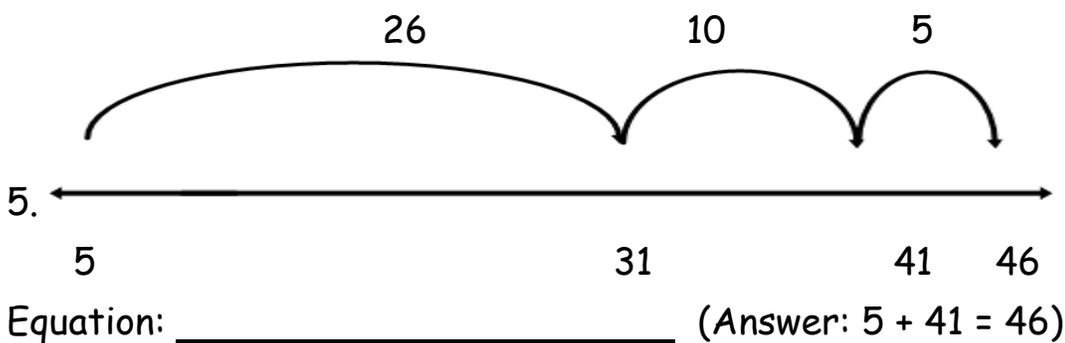
     3,104 3,254 3,120 3,183

~ Can you use estimation to solve problems involving sums (addition) and differences (subtraction)?

~ Can you find the closest estimate by rounding to a lesser place instead of to the greatest place? (See example below.)

     245,468 + 521,875 =

     250,000 + 520,000 = 770,000

Number lines. *What problems are being modeled by these number lines?*

5.

     5   31   41   46

Equation: _____ (Answer: 5 + 41 = 46)

    22   30   50

Equation: _____ (Answer: 50 – 28 = 22)

Properties: a rule that applies to many things

Commutative Property of Addition	Associative Property of Addition
The order in which the numbers are added does not change the sum.	The way which the numbers are grouped when added, does not change the sum.