Math Moments Unit 1-4th Grade
Eagle Springs Elementary School

Place Value

Students should know the difference between the place value of a digit and the value of a digit.

Example:
4,783,265

The place value of the 8 is the ten thousands place. The value of the digit 8 is 80,000.

Comparing Numbers

Students should be able to compare numbers using <, >, = (less than, greater than, or equal to).

Example:
76,498 > 75,498
75,498 < 76,498
76,498 = 76,498

Writing numbers in three ways

Standard Form: 387,988
Expanded Form: 300,000 + 80,000 + 7,000 + 900 + 80 + 8
Written Form: three hundred eighty-seven thousand, nine hundred eighty-eight

Rounding

Example:
Round 368 to the nearest hundred.
This will either be 300 or 400, since those are the two hundreds before and after 368.
Draw a number line, subdivide it as much as necessary, and determine whether 368 is
closer to 300 or 400. Since 368 is closer to 400, this number should be rounded to 400.

Addition

$$3892 + 1567$$

Student explanation for this problem:
1. Two ones plus seven ones is nine ones.
2. Nine tens plus six tens is 15 tens.
3. I am going to write down five tens and think of the 10 tens as one more hundred.(notates with a 1 above the hundreds column)

4. Eight hundreds plus five hundreds plus the extra hundred from adding the tens is 14 hundreds.
5. I am going to write the four hundreds and think of the 10 hundreds as one more 1000. (notates with a 1 above the thousands column)
6. Three thousands plus one thousand plus the extra thousand from the hundreds is five thousand.

Subtraction

$$3546 - 928$$

Student explanation for this problem:
1. There are not enough ones to take 8 ones from 6 ones so I have to use one ten as 10 ones. Now I have 3 tens and 16 ones. (Marks through the 4 and notates with a 3 above the 4 and writes a 1 above the ones column to be represented as 16 ones.)
2. Sixteen ones minus 8 ones is 8 ones. (Writes an 8 in the ones column of answer.)
3. Three tens minus 2 tens is one ten. (Writes a 1 in the tens column of answer.)
4. There are not enough hundreds to take 9 hundreds from 5 hundreds so I have to use one thousand as 10 hundreds. (Marks through the 3 and notates with a 2 above it. (Writes down a 1 above the hundreds column.) Now I have 2 thousand and 15 hundreds.
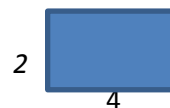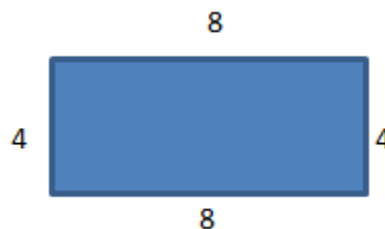5. Fifteen hundred minus 9 hundred is 6 hundred. (Writes a 6 in the hundreds column of the answer).
6. I have 2 thousands left since I did not have to take away any thousands. (Writes 2 in the thousands place of answer.)

Perimeter
Perimeter is the distance around something.

4 + 8 + 4 + 8 = 24

2 + 4 + 2 + 4 = 12

We hope these notes help you understand what we are doing in math. Please feel free to contact your child's teacher for any questions you might have.