

Dear Family,

Our math class will be spending the next few weeks learning to add and subtract greater numbers. We also will round numbers to estimate sums and differences.

You can expect to see work that provides practice in adding and subtracting numbers with up to four digits,

As we learn to subtract across zeros, you may wish to use the following sample as a guide.

### Vocabulary

**Associative Property of Addition**

The property which states that the way in which addends are grouped does not change the sum.  $(3 + 5) + 2 = 3 + (5 + 2)$

**Commutative Property of Addition**

The property which states that the order of addends does not change the sum.

$2 + 7 = 9$  and  $7 + 2 = 9$

**regroup** To use place value to exchange equal amounts when renaming a number.

**Zero Property of Addition**

The property which states that the sum of any number and 0 is that number.  $5 + 0 = 5$

### Subtracting Across Zeros

Since there are no ones or tens to subtract from, you have to regroup 5 hundreds as 4 hundreds 10 tens.

$$\begin{array}{r} 500 \\ - 132 \\ \hline \end{array} \quad \begin{array}{r} 4 \text{ } 10 \\ \cancel{5}00 \\ - 132 \\ \hline \end{array}$$

Then you can regroup the 10 tens as 9 tens 10 ones.

$$\begin{array}{r} 9 \text{ } 10 \\ 4 \cancel{1}0 \\ \cancel{5}00 \\ - 132 \\ \hline \end{array}$$

Finally, you can subtract ones, tens, and hundreds.

$$\begin{array}{r} 9 \text{ } 10 \\ 4 \cancel{1}0 \\ \cancel{5}00 \\ - 132 \\ \hline 368 \end{array}$$

During this unit, students should practice and memorize basic addition and subtraction facts. This will help them do calculations with greater numbers.

Sincerely,

Your Child's Teacher



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