Base Ten Area Pieces (2nd grade)

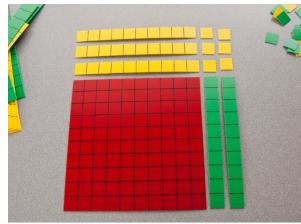
Base Ten Pieces helps students develop a deeper understanding of place value while building their computation skills with multi-digit numbers.

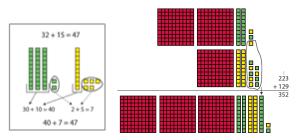
Students can use the Base Ten Area Pieces to:

- represent multi-digit numbers
- regroup
- add
- subtract
- multiply
- divide

Using Base Ten Area Pieces

Students use base ten area pieces that are pre-grouped into 1, 10 and 100, to represent and compute with multi-digit numbers. Because the pieces are pre-grouped, students will need to trade a tens piece for 10 ones or a hundreds pieces for 10 tens. This grouping, ungrouping and trading pieces is critical for developing place value understanding. Using base ten pieces to add and subtract multi-digit numbers helps students to develop strategies that rely upon regrouping, including the traditional method.





Activities to do with Base Ten Area Pieces

Representing 1, 2, and 3 Digit Numbers with Base Ten Area Pieces

- 1. Choose any four base ten pieces (mats, strips, or units) and use them to represent an amount.
- 2. Record the number of each kind of block and the amount you represented in a four column table with the headings: Number of Mats, Number of Strips, and Number of Units, and Amounts.
- 3. Repeat steps 1-2 using a different combination of four base ten pieces.
- 4. Continue to repeat steps 1-2 until you have found all possible combinations for four base 10 pieces.
- 5. How many different numbers did you represent? What was the least/greatest amount you represented?

Make it Four Ways

- Example: 62 six tens and 2 ones fove tens and 12 ones four tens and 22 ones three tens and 32 ones so three tens and 32 ones so 32 = 62
- 1. Choose a 2-digit number that is greater than 40 and less than 100.
- 2. Use base ten pieces to represent the number you chose in four different ways.
- 3. Record each representation you make using words, numbers and an equation.
- 4. Repeat with another number that is greater than 40 and less than 100.

The Free App

Number Pieces Basic

Download Number Pieces Basic App: http://catalog.mathlearningcenter.org/apps/number-pieces



Watch video on how to use the Number Pieces Basic App:

https://www.youtube.com/watch?feature=player_embedded&v=o2bqnGNCxgg