

NUMBER EXPANDER

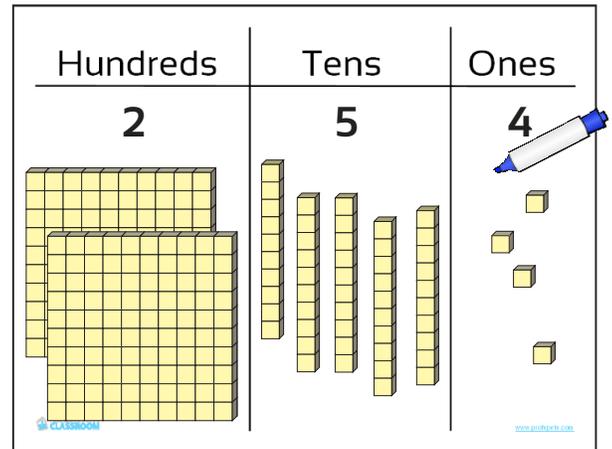
Using Base Ten Blocks

Use base ten blocks after bundling sticks. These blocks have the advantage of representing numbers proportionally: The sizes of the blocks are consistent. However, they are at a higher level of understanding as these blocks require trading or swapping rather than bundling and unbundling to show the groups inside the hundred.

Ensure that students understand a hundred is the same as 10 tens before using these blocks.

Base ten blocks require students to be able to recognize that a hundred block is 10 tens. Frequent activities of forming a hundred from ten tens and ten tens from a hundred are essential to the top of it need.

Another great activity is to put ten tens together on a grid showing the hundred. Allow students to trade ten tens for a hundred block.



PROFESSOR PETE'S CLASSROOM

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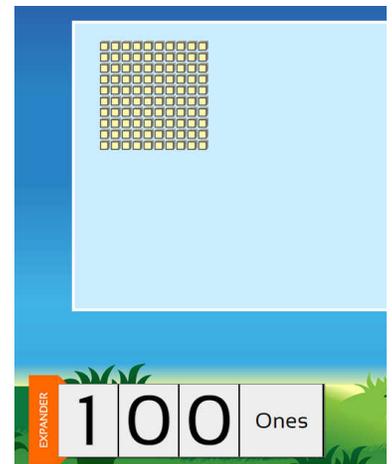
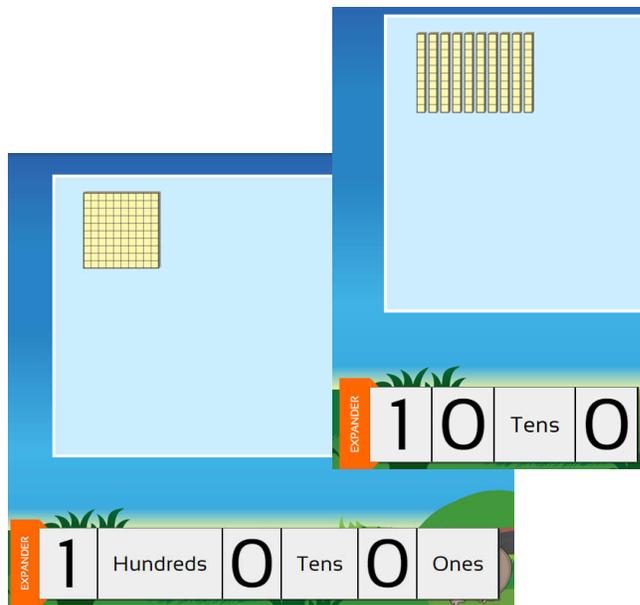
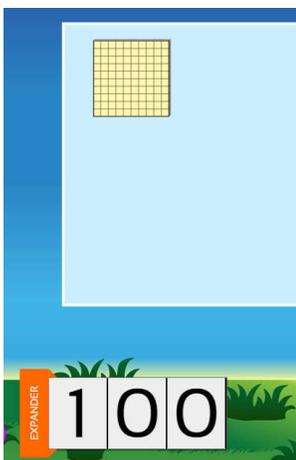
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The Number

This gadget is used for grouping and ungrouping on a screen.

Many students will be able to see the connection between the tens and hundreds very quickly.

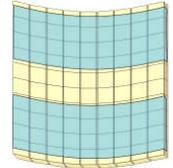


Important Note:

Ensure students have become familiar with bundling sticks before moving to base ten blocks.

Understanding that hundreds are made up of 10 tens

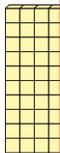
Note: Create a taped set of "10 tens" hundred blocks before starting.



taped "10 tens"
hundred block

1. Explore counting a number such as 200 - 2 taped sets of tens.

- Have the students show 2 taped "10 tens" hundred blocks, that is 2 sets of 10 tens. Have the students count just the first hundred into tens.
- **Ask:** 1 hundred is made up of how many tens? (10 tens)
- Count the next hundred.
- **Ask:** This hundred is made up of 10 tens too. How many tens do we have now? (20 tens)



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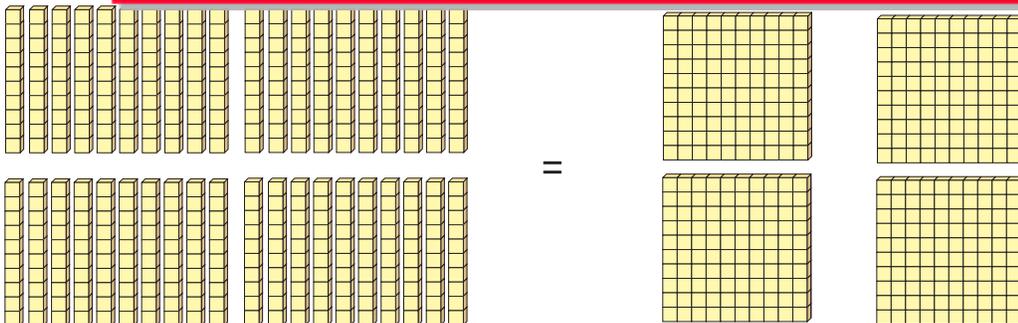


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- **Ask:** H
- **Ask:** If
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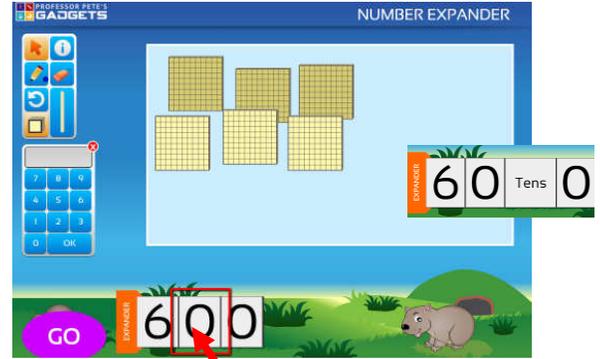
- Show them that it is correct. They can be taped at this point if it enhances your students understanding. (optional)

NUMBER EXPANDER

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2. Explore with the Number Expander Gadget

- Show the number 6 hundred.
- Open the EXPANDER on the tens place. The tens will pop open to show 60 tens.
- Click **GO** and the 1 hundred blocks will animate into 10 ten blocks.

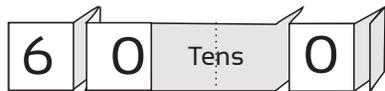



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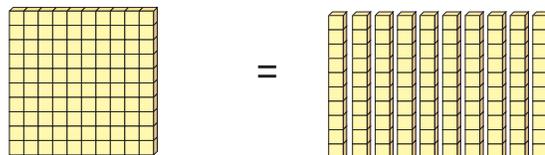


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come



- Show them more numbers of hundreds on the Number Expander Gadget and show the blocks animating.
- 3. Use pictures of base ten blocks (see templates) and glue them into their workbooks, with wording such as:



1 hundred = 10 tens