WRITING IN EXPANDED FORM

Practice reading and writing numbers written in expanded form. Example: The expanded form of is + 70 + 6.

That 8 literally represents 8 hundreds, The final step is to connect the results with addition signs: 0. Consider the example of It represents all of these things: 9 tens, or 9 times 10, or Updated April 26, By Lisa Maloney It is tempting to say that the digits in a number are what define its value, but if you write 25 and 52 â€” using the same digits but in different places â€” you get two different values. It represents 4 thousands, which is the same thing as 4 times 1,, which is the same thing as 4, Keep counting for long enough, and you'll reach 19, then So what does the 9 represent? So then we have our 8. Have students discuss how many tens and ones there are with partners. Now let's think about what that really means. Explain that two-digit numbers are like adding together a tens value with a ones value. And you see, every time you move to the left, you move one place to the left, you're multiplying by The 7 literally represents 7 ones. Let me start with what the 7 represents. The Hundreds Place You can decompose any number at all, even large ones. The 8 is in the hundreds place. They represent 7 ones. This right here, the 7, is in the ones place. And then the 1 is in the ten-thousands place. You could literally imagine you have 9 actual tens. If this 1 is in the ten-thousands place, that means that it literally represents-- I want to do this in a way that my arrows don't get mixed up. You just have to know the value of each place or slot in the number. All of these are equivalent. Guided Practice Write the number 67 on the chart or board. The next number is So you could consider this expanded form, or you could use this version of it, or you could say this the same thing as 1 times 10,, depending on what people consider to be expanded form-- plus 4 times 1, plus 8 times plus 9 times 10 plus 7 times 1. It literally represents 4, Remind students that value means how much a number is worth. You now have two digits in the number â€” the 1 and the 0. Now let's think about the 9. Tell your students that showing the value of two-digit numbers in this way is called expanded form, or a numeric form of writing a number to stretch out the different values into a number sentence. And then finally, we have this 1, which is sitting in the ten-thousands place, so it literally represents 1 ten-thousand. Actually, let me write this. The slot on the right represents ones â€” the same numbers you started counting with â€” and the zero in that slot tells you that you don't have any extra 1s. Perhaps you've already noticed this pattern: The place values start with ones on the right, then for each slot you move to the left, the value is multiplied by That's literally what it represents: 9 actual tens. It represents 8 hundreds.