Period Posers

Solve each riddle.

1 **Fred:** My number has two periods. One period contains the digits 3, 0, and 6 in that order. The other contains the digits 0, 9, and 5 in that order.

Ned: My number has two periods also. One contains the digits 4, 8, and 6 in that order. The other period contains the digits 1, 2, and 7 in that order.

Fred: Yes, but my number is greater than your number.

What are Fred's and Ned's numbers?

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2 **Ann:** My number has two periods. One contains the digits 4, 1, and 8 in that order. The other contains the digit 9.

Jan: My number has two periods. One period contains only 0s. The other has the digits 1 and 0 in that order.

Ann: Too bad, my number must be greater than your number.

Jan: Nope—my number is greater!

What are Ann's and Jan's numbers?

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3 **Mo:** My number has two periods. One period has a 7 in the hundreds place. The other has an 8 in the tens place.

Bo: My number also has two periods. One has a 1 in the hundreds place. The other has a 2 in the tens place.

Mo: All other digits in our numbers are zeros. So how can it be that your number is greater than my number?

What are Mo's and Bo's numbers?

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4 **Stretch Your Thinking** Write your own period poser.
Then exchange it with a classmate and solve each other's posers.

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