

Name _____ Date _____

pumpkin farm

Pumpkin Town has a neon sign that repeats the message over and over. During pumpkin season the message reads:

pumpkins*for*sale*pumpkins*for*sale*pumpkins*fo

The simple phrase **pumpkins*for*sale*** is repeated over and over again all day long.

- What letter or symbol will be the 100th one printed on this sign?
- Use numbers, words, and/or pictures to explain how you know your answer is correct.

Name _____ Possible Solution _____ Date _____

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SOLUTION:

PUMPKINS*FOR*SALE* is 18 characters long so I have to find out how many times the sign will print the whole message in 100 characters. I'll divide 18 into 100 to find out.

$100/18 = 5 \text{ R}10$ This means that the sign prints **PUMPKINS*FOR*SALE*** 5 times.

The remainder of 10 (R10) means that the sign prints 10 more letters of this message:
PUMPKINS*F

ANSWER: The 100th character printed on this sign will be the F in FOR.