# A Question about 3-Digit Numbers 

## A. RAMACHANDRAN

Are there 3-digit numbers where the product of the first digit and the 2 -digit number formed by the other digits equals the product of the last digit and the 2-digit number formed by the first two digits? In other words, if $\triangle a b c$ is a 3-digit number, is it possible that $a \times \boxed{b c}=\boxed{a b} \times c$ ?

Questions such as the above reinforce the conceptual understanding of place value, divisibility rules and symbolic notation and enable students to make a problem statement, understand constraints and reason systematically.

## Solutions are given on page 59

Hint: The notation $\boxed{a b c}$ for a 3-digit number indicates that the number is $a \times 100+b \times 10+c \times 1$.

