

В целом положительном числе переставили цифры и получили число, в три раза меньшее исходного. Докажите, что исходное число делилось на 27.

A stylized, decorative representation of the number 27. The digit '2' is formed by a thick black line that starts at the top left, curves down and right, then loops back up and left, ending in a small hook. The digit '7' is formed by a thick black line that starts at the top right, curves down and left, then loops back up and right, ending in a small hook. The two digits are positioned side-by-side.