

Moles of chalk do you have when you have 10 grams before and 8 grams after writing your name?

**Solution.**

$n[\text{CaCO}_3] = m[\text{CaCO}_3] / M[\text{CaCO}_3]$  , on the spelling of the name were spent  $10\text{g} - 8\text{g} = 2$  grams of chalk, then

$n[\text{CaCO}_3] = 2/100 = 0,02$  mol.

**Answer:** on the spelling of the name was spent 0.02 mol of chalk.