

N.4 Inverses

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To find the inverses in \mathbb{Z}_m , take the product of two numbers in $\mathbb{Z}_m = 0, 1, 2, \dots, m - 1$, such that neither numbers are zero. If the product can be divided by m with a remainder of 1, then the two numbers are inverses of each other in \mathbb{Z}_m .