

Discrete Mathematics (Modular Mathematics Series)

(4 pts) Bob wishes to exchange messages with Alice using RSA encryption. He chooses primes $p = 3$ and $q = 5$, and calculates $n = pq = 15$, $\varphi(15) = (3-1)(5-1) = 8$. He picks $e = 3$ as his public key, and tells Alice " $n = 15, e = 3$ ".

(a) List the elements of the group $(\mathbb{Z}_8^*, \otimes)$.

(b) Identify the element $x = 3^{-1}$ in $(\mathbb{Z}_8^*, \otimes)$.

(c) Given $a \in \mathbb{Z}_{15}$, simplify each of $a^8 \text{ mod } 15$ and $a^9 \text{ mod } 15$.

(d) Alice transmits $N = 4$, where $N \equiv M^e \text{ mod } 15$. Find M .

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