

Definition: Least Common Multiple

Given two numbers $a, b \in \mathbb{Z}$ the least common multiple of them is a number $\text{lcm}(a, b)$ such that

- $a \mid \text{lcm}(a, b)$
- $b \mid \text{lcm}(a, b)$
- And for any other $k \in \mathbb{Z}$ where $k < \text{lcm}(a, b)$, then
$$(a \nmid k) \vee (b \nmid k)$$
-