

XII - Relations And Functions 1.4 - Test No.5

- Q1. Consider the binary operation $*$ on the set $\{1, 2, 3, 4, 5\}$ defined by $a * b = \min \{a, b\}$. Write the operational table.
- Q2. If the binary operation $*$ on the set of integer Z , is defined by $a * b = a + 3b^2$, then the value of $2 * 4$, find it.
- Q3. Determine which of the following binary operations on the set N are associative and which are commutative.
- (i) $a * b = 1 \quad \forall a, b \in N$ (ii) $a * b = \frac{a+b}{2} \quad \forall a, b \in N$.
- Q4. If $a * b = a + ab$ Find $1 * (2 * 3)$

Done on 2012 here