$$NWD(12, 8) = 4$$

$$NWW(12, 8) = 24$$

$$12 \cdot 8 = NWD(12, 8) \cdot NWW(12, 8)$$
$$96 = 4 \cdot 24$$
$$96 = 96$$

$$\boxed{a \cdot b = NWD(a, b) \cdot NWW(a, b)}$$

$$NWW(a, b) = \frac{a \cdot b}{NWD(a, b)}$$