



- **Ex:** Perform the following calculations, and write the answers with appropriate prefixes (such as μ , m, k, etc.) for engineering units:
 - a) $v = 5.6 \text{ mA} \cdot 0.5 \text{ k}\Omega$ Note: $V = A \cdot \Omega$
 - b) $R = 1.2 \text{ k}\Omega + 700 \Omega$
 - **SOL'N:** a) The product of m and k is $10^0 = 1$. The product of A and Ω is V.

 $v = 5.6 \text{ mA} \cdot 0.5 \text{ k}\Omega = 2.8 \text{ V}$

b) We may convert the 1.2 k Ω to 1200 Ω and add 700 Ω , or we may convert the 700 Ω to 0.7 k Ω and add 1.2 k Ω . Either approach is acceptable, although the latter yields a result that is already in appropriate engineering format.

 $R = 1.2 \text{ k}\Omega + 700 \Omega = 1.9 \text{ k}\Omega$