

Breakout Exercise #1

Write the following numbers in Scientific Notation :

a) $3700 = 3.7 \times 10^3$

b) $0.00046 = 4.6 \times 10^{-4}$

c) $60.2 = 6.02 \times 10^1$

d) $4500000 = 4.5 \times 10^6$

e) $0.000000784 = 7.84 \times 10^{-7}$

Breakout Exercise #2

Write the following numbers in decimal form :

a) $7.24 \times 10^2 = 724$

b) $4.3 \times 10^{-4} = 0.00043$

c) $3.459 \times 10^2 = 345.9$

d) $5.96 \times 10^{-5} = 0.0000596$

e) $2.43 \times 10^3 = 2430$

Breakout Exercise #3

Write the following numbers in Engineering Notation :

a) $82700 = 82.7 \times 10^3$

b) $0.0005723 = 572.3 \times 10^{-6}$

c) $27450000 = 27.45 \times 10^6$

d) $3.459 \times 10^4 = 34590 = 34.59 \times 10^3$

e) $2.843 \times 10^{-7} = 0.0000002843 = 284.3 \times 10^{-9}$

Breakout Exercise #4

Write the following numbers using SI Prefix Notation :

a) $2.75 \times 10^3 \text{ Hz} = 2.75 \text{ kHz}$

b) $62.4 \times 10^{-6} \text{ A} = 62.4 \text{ }\mu\text{A}$

c) $680 \times 10^{-12} \text{ F} = 680 \text{ pF}$

d) $4.7 \times 10^6 \text{ }\Omega = 4.7 \text{ M }\Omega$

e) $3.25 \times 10^{-9} \text{ s} = 3.25 \text{ nS}$