

## Engineering Prefixes (31:00)

State the purpose of engineering notation.

List the prefixes and abbreviations associated with  $10^3$ ,  $10^6$ ,  $10^9$ , and  $10^{12}$ .

Express 560,000V in proper engineering format.

Express 560,000,000V in proper engineering format.

Express 10,000,000 $\Omega$  in proper engineering format.

Use this overlay to place the following numbers in proper engineering format.

2200 $\Omega$   
34500V  
1500000W

Place the following numbers in proper engineering format.

2450000W  
910000 000 $\Omega$   
360000000000J  
2000m

Evaluate the following expressions featuring negative exponents:

$2^{-1}$   
 $2^{-2}$   
 $2^{-3}$

List the prefixes and abbreviations associated with  $10^{-3}$ ,  $10^{-6}$ ,  $10^{-9}$ , and  $10^{-12}$ .

List the most common engineering prefixes and abbreviations.

Express .00002A in proper engineering format.

Express .00000000033F in proper engineering format.

Use this overlay to place the following numbers in proper engineering format.

.120H  
.000002 2 C  
.03A  
.000000015 F

Place the following numbers in proper engineering format.

4200000 Hz  
.0345 A  
.00004 F  
208 V  
10000000000 W  
5700 Wh  
.000000000630 C  
3400000000000 J  
.000000001 m

Place these entries in proper engineering format and arrange them in sequence.

33,000Z  
23,800,000Z  
24Z  
0.196Z  
8,700,000,000Z  
0.047Z  
0.000047Z  
2,840,000,000,000Z  
0.00000000022Z