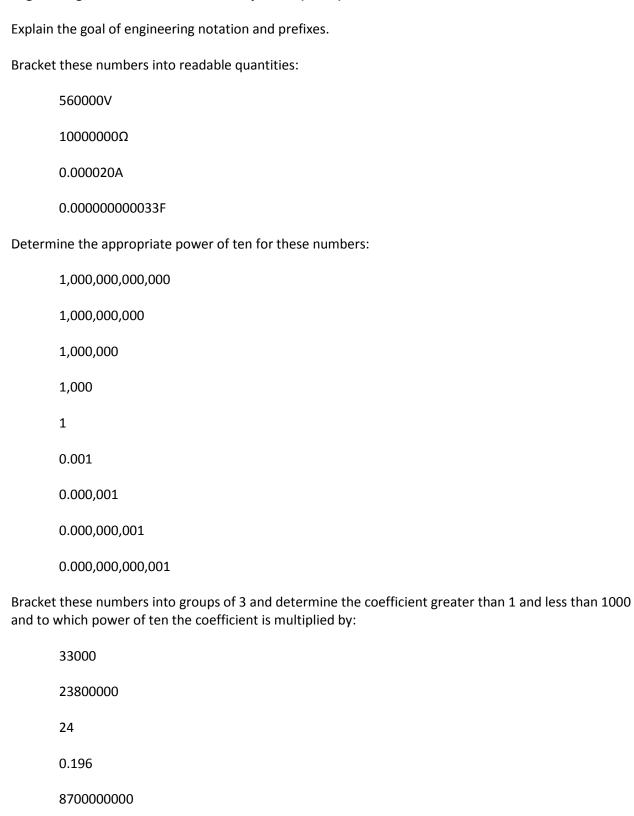
Engineering Notation and Prefixes Study Guide (48:21)

0.047



```
0.000047
28400000000000
```

0.000000000022

Arrange the above numbers in order of magnitude

Attach engineering prefixes to the powers of ten:

Name prefix power of ten

1,000,000,000,000

1,000,000,000

1,000,000

1,000

1

0.001

0.000,001

0.000,000,001

0.000,000,000,001

Comment on mixed use of powers of ten and engineering prefixes

Make use of engineering prefixes for these numbers

100000V

0.000000000002s

6750000W

0.00000050m

69000V

0.05s

120V

```
8200000\Omega
Order these numbers with respect to their magnitude and express them without using engineering
prefixes or powers of ten:
       840pZ
       506mZ
       6MZ
       4Z
       1.2GZ
       5mZ
Comment on the means the TI-89 uses to display engineering format: ____E___
Determine which prefix should be employed by these numbers as displayed on the TI-89
       47E-6F
       3.9E3\Omega
       70E-3A
       680Ε0Ω
       22E-9F
       2.3E6W
       1.15E9Wh
Enter these numbers into the TI-89 in the most efficient fashion, how would the calculator display these
numbers in engineering format?
       68kΩ
       8.3MW
       39µF
       2.56*10<sup>-7</sup>g
```

0.0173A