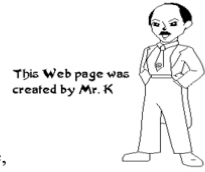


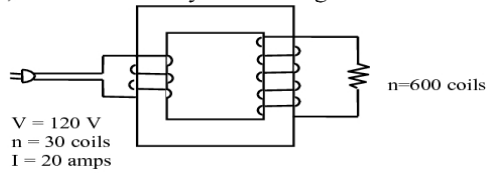
$$\frac{V_1}{n_1} = \frac{V_2}{n_2} \quad V = IR$$

$$n_1 I_1 = n_2 I_2 \quad P = IV$$

## Transformers Worksheet



Look at the following transformer. The source of electricity is on the left. Therefore, the primary coil is on the left, and the secondary is on the right.



1. Fill in the following chart for this transformer. Would this be a step-up or step-down (circle one)?

Step up or step down?	Primary	Secondary
Voltage		
Current		
# of Coils		
Power		

2. For the above transformer what is the output voltage if it is only 75% efficient?

3. A transformer has a primary coil with 200 turns, and a secondary coil with 2000 turns. The input voltage is 120 VAC, and runs at 1800 Watts. What is the output voltage?

Step up or step down?	Primary	Secondary
Voltage		
Current		
# of Coils		
Power		