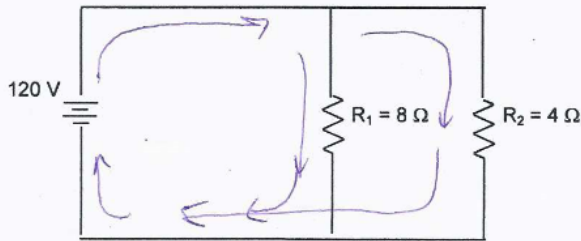


Unit 5 : Electricity & Magnetism Practice Quiz

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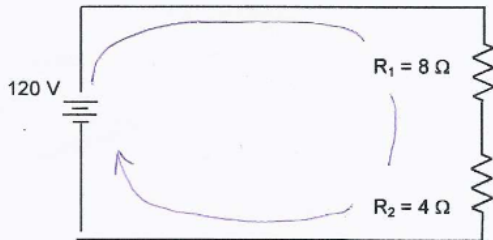
1. Use the circuit below to answer the following questions:  
 a. Show the direction of the currents.  
 b. Find the current through and the voltage across each resistor in the circuit and the total power used.



$V_1 = 120V$   
 $V_2 = 120V$   
 $I_1 = 15A$   
 $I_2 = 30A$   
 $I_{Total} = 45A$   
 Power = 5400 Watts

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2. Use the circuit below to answer the following questions:  
 a. Show the direction of the current.  
 b. Find the current through and the voltage across each resistor in the circuit and the total power used.



$V_1 = 80V$   
 $V_2 = 40V$   
 $I_1 = 10A$   
 $I_2 = 10A$   
 $I_{Total} = 10A$   
 Power = 1200 Watts

$R_T = 12\Omega$   
 $I_T = 10A$

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2. Show the direction of the magnetic field in the following diagrams.

