Worksheet- Series Circuit Problems, Episode 903 Name:

Remember: Series Circuit

- Current around the circuit does not change
- Voltage across each Resistor will have a Voltage Drop; Voltage Drops across ALL Resistors will ADD together to equal the Total Voltage
- Resistance: Add each resistor up to find Resistance Total i.e. R₁ + R₂ + R₃ +..... = R_T



Remember: Parallel Circuit

- Current in each branch will vary and will add up to the Total Amperage
- Voltage down each branch will be the same as the Total Voltage
- Resistance: $\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} = \frac{1}{R_{EQ}}$ Find Inverse for Total Resistance = $\frac{R_{EQ}}{1}$



Name

