http://phet.colorado.edu/en/simulation/circuit-construction-kit-dc

Series Circuits

Name:

	Battery Voltage	Current	Voltage Drop	Calculated Resistance (V drop/Current)	Total Resistance (B V/Current)
	V	A	V	Ω	Ω
Single Resistor Series Circuit					
Two Resistor Series Circuit			#1		
			#2		
		Г	T		
Three Resistor Series Circuit			#1		
			#2		
			#3		
Right click on the resistors to change the resistance to the values below.					Total Resistance
Varied Resistors			#1		
10, 20, & 30 Ω			#2		
			#3		
Short Circuit			#1		
			#2		

What is the relationship between the battery voltage and the voltage drops?

How do the currents compare in a series circuit?

- A) What happens to the current as more resistors are added to the circuit?
- B) How does the current compare throughout the circuit?

What is the relationship to the total resistance and the individual resistors?