Name:	Date	:	Class	3

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Demonstrate knowledge of electrical/electronic series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law).

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Time off	
Time on	

Total time___

CDX Tasksheet Number: C951

NOTE Use Ohm's Law to solve the circuit information in this task.

- 1. Series Circuit: Circuit Voltage = 12 volts, R1 = 3 ohms, R2 = 9 ohms
 - a. Draw this circuit in the space below:

b.	Total circuit resistance:	ohms
c.	Total circuit current flow:	amps
d.	Voltage drop across R1:	volts
e.	Voltage drop across R2:	volts
f.	Current flow through R1:	amps
g.	Current flow through R2:	amps

- 2. Parallel Circuit: Circuit voltage = 12 volts and Branch 1, R1 = 2 ohms and Branch 2, R2 = 4 ohms
 - a. Draw this circuit in the space below:

b.	Total circuit resistance:	ohms
	(Hint: $Rt = R1 \times R2/R1 + R2$)	
c.	Total circuit current flow:	amp:
d.	Voltage drop across R1:	volts
e.	Voltage drop across R2:	volts
f.	Current flow through R1:	amps
q.	Current flow through R2:	amps

- 3. Series-Parallel Circuit: Circuit voltage = 12 volts, R1 = 2 ohms is in series with the parallel circuit of R2 = 3 ohms and R3 = 3 ohms
 - a. Draw this circuit in the space below:

b.	Total resistance of the parallel circuit:			ohms
c.	Total circuit resistance:	ohms		
d.	Total circuit current flow:	amps		
e.	Voltage drop across R1:	volts		
f.	Voltage drop across R2 and R3:		volts	
g.	Current flow through R2:	amps		
h	Current flow through P3:	amne		

4. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating		CDX Tasksheet Number: C951		
0	1	2	3	4
Supervisor/instru	ctor signature			Date