

Date Started:	Date Completed:	Score:
	Learning Activit	ty Sheet
	Circuit and Circu	it Elements
Directions: Choose the le	etter of the correct answer and write it	t in the blank provided before each number.
For questions 1 and 2, ref	er to the diagram on the right.	
1. What is the total	resistance in the circuit?	
A. 8 Ω B. 10 Ω C. 12 Ω D. 14 Ω 2. What is the total A. 0.2 A B. 0.3 A C. 0.4 A D. 0.5 A	current in the circuit?	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
3. What is the func	tion of a switch?	
B. It provides ele C. It limits the to D. It creates a sh	oltage to the circuit. ectrical energy to appliances. otal current passing through a circuit. ort circuit or an open circuit, dependi	-
4. Which device lin	mits the total current passing from the	e transmission line into the house?

Name:_

A. batteryB. fuseC. resistorD. switch

A. 2.4Ω B. 4Ω C. 5.5Ω D. 10Ω



5. What is the total resistance of a 4- Ω resistor and a 6- Ω resistor connected in parallel?



6. Which of the following shows a proper way of handling electronic devices?	
A. Touch active wires during a flood.B. Avoid touching wires on power poles.C. Handle electronic devices with a wet hand.D. You can plug as many appliances as you like into a circuit.	
7. Which of the following is equal to the total resistance of a pair of $1-\Omega$ resistors connected in series?	
A. 2 Ω , and when in parallel 0.5 Ω B. 0.5 Ω , and when in parallel 2 Ω C. 1 Ω , and when in parallel 0.75 Ω D. 1 Ω , and when connected in parallel 2 Ω	
8. Which of the following is NOT a safety measure when handling electronic devices?	
A. You can still use broken or frayed wires.B. Avoid sticking your fingers into an electrical outlet.C. Do not handle electronic devices when your hands are wet.D. Always unplug an electrical appliance before attempting to repair it.	
9. Which of the following is NOT true about series circuits?	
 A. The current in the different parts of the circuit varies. B. The total resistance is equal to the sum of the resistance of the different parts. C. The total voltage is equal to the sum of the voltages across the different parts of the circuit. D. The various components comprising the circuit are connected that the current flows through each circumponent. 	cuit
10. Which of the following is NOT correct about a parallel circuit?	
A. It is the most commonly used circuit.B. The voltage in any part of the circuit is the same.C. The total resistance is equal to the sum of the resistances.	

D. One side of each component is connected to a common junction, and the other side is connected to

another common junction.