Name:		
Date Started:	Date Completed:	Score:



Learning Activity Sheet Electrical Energy and Current

Directions: Read each item carefully. Circle the letter of the correct answer.

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	-meter copper rod is heated 17 × 10 6/°C)	1 from 26°C to 220°C. Wha	at is the length of the coppe	er rod after heating?	
	A. 15.00 m	B. 15.05 m	C. 16.00 m	D. 16.75 m	
2. Whic	ch of the following is the u				
	A. ampere	B. coulomb	C. Ohm	D. volt	
3. A 2.75°C of charge traveled from point A to point B in 5.00 minutes. What is the electric current?					
	A. $9.17 \times 10-3$ A	B. 0.550 A	C. 13.75 A	D. 825 A	
4. A 60-watt light bulb is connected to a 120-V plug. What is the current in the light bulb?					
	A. 0.50 A	B. 0.25 A	C. 2.0 A	D. 4.0 A	
5. Which of the following will take place when a substance absorbs heat?					
	A. osmosis	B. short circuit	C. thermal expansion	D. decrease in kinetic energy	
6. The weather forecaster reported that the daily average temperature is 40°C. What is this temperature in Kelvin?					
	A. 233 K	B. 253 K	C. 303 K	D. 313 K	
7. You have a uniform, fl at disc with a hole in the center. While heating the disc, what is happening to the diameter of the hole?					
	A. increases	B. decreases	C. remains the same	D. increases then decreases	
8. The coefficient of linear expansion of iron is 11 × 10–6/°C. What is the change in length of a 7.50-meter rod if it was heated from 25°C to 90°C?					
	A. $2.2 \times 10-2 \text{ m}$	B. $4.0 \times 10-3 \text{ m}$	C. $5.4 \times 10-3 \text{ m}$	D. 8.8 × 10–4 m	
9. Whic	ch of the following pairs ar	re mismatched?			
	A. voltage: volt		C. electrical power: watt		
	B. resistance: ohm		D. electrical energy: farac	d	
10. How many electrons must be transferred in a second to have an electric current of 5.0 A?					
	A. 3.1×1019 electrons C. 8.9×1019 electrons B. 7.2×1019 electrons D. 9.9×1919 electrons				
	2. 7.2 ·· 1017 electrons		D. 7.7 1717 CICCHOIIS		