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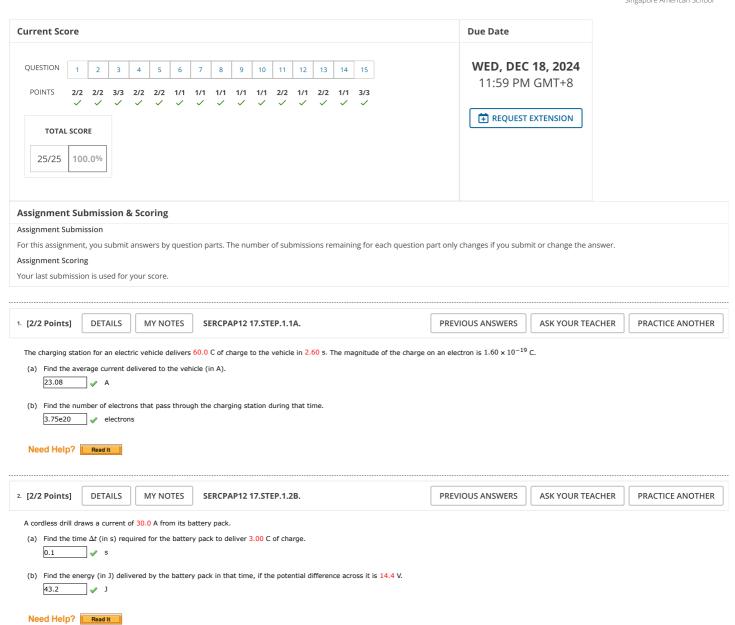
← AP Physics 2, section B4,

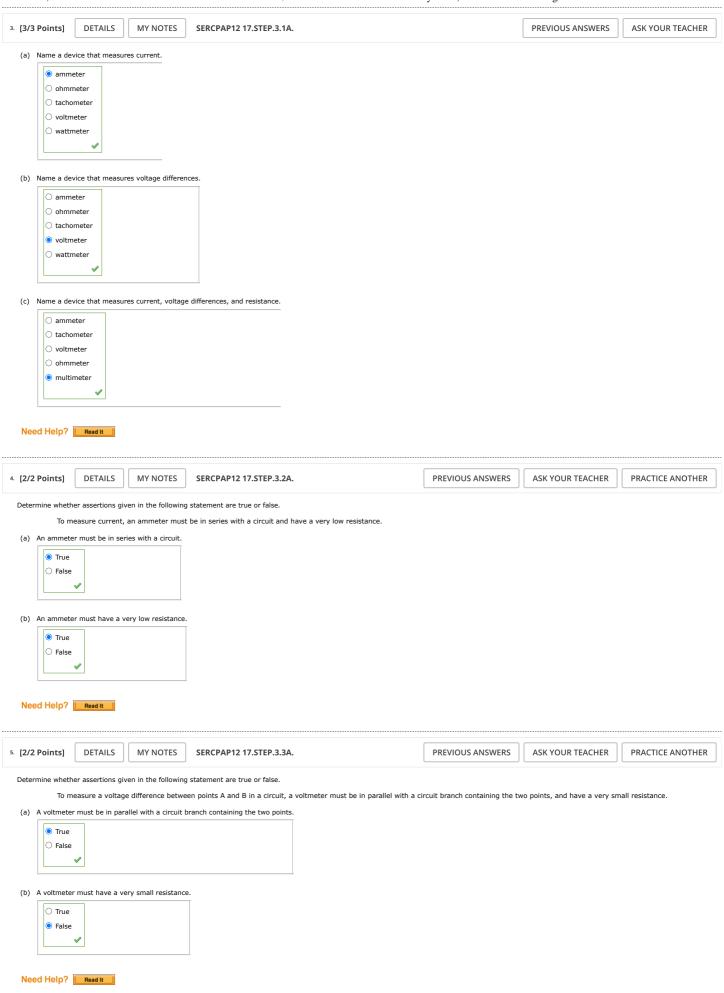
Current and Resistance #1 (Homework)

INSTRUCTOR

Ian Page

Singapore American School





6. [1/1 Points]						
	DETAILS	MY NOTES	SERCPAP12 17.STEP.4.1A.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
When the current		tor is <mark>2.00</mark> mA, the	potential difference across it is 1.10 V. Calculate the resistor's res	sistance (in Ω).		
Need Help?						
Need Help?	Read It					
7. [1/1 Points]	DETAILS	MY NOTES	SERCPAP12 17.STEP.4.2A.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A 20-gauge copp	er wire has a len	ngth of 125 m long	and a radius of 0.000406 m. Calculate its resistance (in Ω). The re	esistivity of copper is $1.70 \times 10^{-8} \Omega$	· m.	
4.10	Ω					
Need Help?	Read It					
[1/1 Points]	DETAILS	MY NOTES	SERCPAP12 17.STEP.4.2C.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
	length of 27.5 r	m and a resistance	of 0.200 $\Omega.$ Calculate its cross-sectional area (in $\text{m}^2).$ The resistiv	ity of gold is $\rho = 2.44 \times 10^{-8} \Omega \cdot m$		
Need Help?	Read It					
9. [1/1 Points]	DETAILS	MY NOTES	SERCPAP12 17.STEP.4.3A.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A wire of length	and cross sad	tional area A is m	elted down and recast with twice its original length. Find its new re	ocistance R in terms of its origina	L reciptores R	
	R ₀	cional area A ₀ is in	enced down and recast with twice its original length. Find its new it	esistance, K _n , in terms or its origina	resistance, κ_0 .	
Need Help?	Read It					
10. [1/1 Points]	DETAILS	MY NOTES	SERCPAP12 17.STEP.4.4A.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A wire of length	9.00 m and cross	s-sectional area 8.0	00×10^{-6} m ² is attached across a voltage difference of 24.0 V. If a	an ammeter in circuit reads 7.00 A,	find the resistivity of the wire	(in Ω · m).
3.05e-6	$\Omega \cdot m$					
Need Help?	Read It					
] [
11. [2/2 Points]	DETAILS	MY NOTES	SERCPAP12 17.STEP.6.1A.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
	ircuit provides a		at an operating voltage of 92.0 V.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current o	ircuit provides a	current of 20.0 A	at an operating voltage of 92.0 V.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0	ircuit provides a ne total power (ii	a current of 20.0 A	at an operating voltage of 92.0 V.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of Calculate the 1840.0 (b) How many 92.0	ircuit provides a ne total power (ii	a current of 20.0 A	at an operating voltage of 92.0 V. this circuit.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0	ircuit provides a ne total power (ii	a current of 20.0 A	at an operating voltage of 92.0 V. this circuit.	PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help?	ircuit provides a se total power (ii	current of 20.0 A n W) delivered by the bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer.			
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help?	ircuit provides a se total power (ii	bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C.	PREVIOUS ANSWERS	ASK YOUR TEACHER ASK YOUR TEACHER	
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help?	ircuit provides a se total power (ii	bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer.	PREVIOUS ANSWERS		
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help?	ircuit provides a se total power (ii	bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C.	PREVIOUS ANSWERS		
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help? 12. [1/1 Points] A voltmeter show 0.0199	ircuit provides a se total power (ii	bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C.	PREVIOUS ANSWERS		PRACTICE ANOTHER PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 192.0 Need Help? 12. [1/1 Points] A voltmeter show 10.0199	ircuit provides a se total power (ii	bs could the circuit	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C.	PREVIOUS ANSWERS		PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 192.0 Need Help? 12. [1/1 Points] A voltmeter show 10.0199 Need Help?	ircuit provides a ne total power (ii	bs could the circuit MY NOTES MY NOTES	at an operating voltage of 92.0 V. this circuit. I light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C. cross a 113 Ω resistor. Calculate the power delivered to the resistor.	PREVIOUS ANSWERS or (in W). PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help? 12. [1/1 Points] A voltmeter show 0.0199 Need Help? 13. [2/2 Points] A battery-powere	ircuit provides a se total power (ii	bs could the circuit MY NOTES MY NOTES	at an operating voltage of 92.0 V. this circuit. Ithis circuit. Ithis circuit. SERCPAP12 Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C. Cross a 113 Ω resistor. Calculate the power delivered to the resistor. SERCPAP12 17.STEP.6.2A. al difference of 13.6 V across a heating element with a resistance	PREVIOUS ANSWERS or (in W). PREVIOUS ANSWERS	ASK YOUR TEACHER	PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help? 12. [1/1 Points] A voltmeter show 0.0199 Need Help? 13. [2/2 Points] A battery-powere (a) Calculate the 197.35	DETAILS DETAILS d water heater rate power consum	MY NOTES MY NOTES MY NOTES MY NOTES MY NOTES	at an operating voltage of 92.0 V. this circuit. Ithis circuit. Ithis circuit. SERCPAP12 Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C. Cross a 113 Ω resistor. Calculate the power delivered to the resistor. SERCPAP12 17.STEP.6.2A. al difference of 13.6 V across a heating element with a resistance	PREVIOUS ANSWERS or (in W). PREVIOUS ANSWERS of 1.90 Ω.	ASK YOUR TEACHER ASK YOUR TEACHER	PRACTICE ANOTHER PRACTICE ANOTHER
A direct current of (a) Calculate the 1840.0 (b) How many 92.0 Need Help? 12. [1/1 Points] A voltmeter show 0.0199 Need Help? 13. [2/2 Points] A battery-powere (a) Calculate the 197.35	DETAILS DETAILS d water heater rate power consum	MY NOTES MY NOTES MY NOTES MY NOTES MY NOTES	at an operating voltage of 92.0 V. this circuit. light up? Include fractional numbers of bulbs in your answer. SERCPAP12 17.STEP.6.1C. cross a 113 Ω resistor. Calculate the power delivered to the resistor. SERCPAP12 17.STEP.6.2A. al difference of 13.6 V across a heating element with a resistance eater (in W).	PREVIOUS ANSWERS or (in W). PREVIOUS ANSWERS of 1.90 Ω.	ASK YOUR TEACHER ASK YOUR TEACHER	PRACTICE ANOTHER PRACTICE ANOTHER

