Student Activity Sheet 1-3

Ohm's Law Practice

0.007 amps

3600 ohms

600 ohms

1200 ohms

2 amps

Name Date	MNSWE	2	Class/Period/Instructo	Score or			
The only challenge of	this exercis	e is to become famili	with practice. The following ar with how voltage, current Ohm's law formula are pro-	ng problems are it, or resistance ca			
	$E = I \times R$ $R = E/I$ $I = E/R$	Used to find resistance (R) when voltage (E) and current (I) are known.					
1. 10	volts	2 amperes	5 ohms				
2	ohms	6 volts	3 amps				
36	amps	12 volts	2 ohms				
4. 2.4	ohms	12 volts	5 amps		÷ .		
5. <u>50</u>	volts	5 amps	10 ohms				
6. 2.4	amps	10 ohms	24 volts				
7. 1.2	ohms	5 amps	6 volts	•			
83	volts	0.25 amps	12 ohms	* · · · · · · · · · · · · · · · · · · ·			
9		1.5 amps	6 volts				
10/2 :	amps	100 ohms	12 volts				
1175	volts	25 ohms	3 amps	•	• .		
12. 72	volts	0.06 amps	1200 ohms				
13. 1.22	volts	0.01 amps	122 ohms				
14. <u>1206</u> 0	ohms	0.005 amps	6 volts				
15. <u>90</u> v	olts	1800 ohms	0.05 amps				

16. <u>9.8</u> volts

17. <u>.005</u> amps

.18. <u>.04</u> amps

19. <u>.0/</u> amps

20. <u>32</u> volts

1400 ohms

18 volts

24 volts

12 volts

16 ohms

Student Activity Sheet 1-4

Common Electrical Terms and Symbols

Name	Answer Key		Score	
Date		_ Class/Period/Instructor		

In this exercise, you will become familiar with the common terms and symbols associated with basic electrical theory. This exercise also provides you with more practice using Ohm's law. The following electrical terms and symbols are used to describe electrical circuit action.

Voltage

E, V, volts, electrical pressure, electromotive force (emf), potential

Current

I, A, amperes, amps, electron flow

Resistance

 R, Ω , ohms

Relate the terms and symbols to Ohm's law, and solve for the unknown values. Formulas for Ohm's law can be found on the previous Student Activity Sheet or in the textbook.

1. <u>/5</u> volts	3 Ω	5 A
2. 2 Ω	12 E	6 A
3. <u>.25</u> A	6 emf	24 Ω
4. 40 potential	20 R	2 A
5. 48 resistance	0.25 A	12 V
6. 24 amperes	100 Ω	24 E
7. <u>/0</u> E	1000 Ω	0.01 A
8. <u>720</u> ohms	18 V	0.025 amperes
9. <u>110</u> V	2200 Ω	0.05 I
10. <u>-, 06</u> 1	6 volts	100 ohms