Name			

Part E: The Power Formula

$$P = IV$$

	Quantity	SI Unit	What it means
			How fast energy changes
P	Power	Watts (W)	form.
			Electrons per second.
I	Current	Amps (A)	
			Energy per electron.
V	Voltage	Volts (V)	

E.1 I have a current of 5 Amps and I have a 12 Volt battery. What is my power?

2.1 I have a current of 5 7 mips and I have a 12 voit outlery. What is my power:				
Looking For	Formula			
Already Know				
Answer as a complete sentence	with unit:			

E.2 I have a current of 3 Amps and a 30 Volt battery. What is my power?

Liz i nave a carrent of 5 7 mips (and a 50 voic outlery: what is my power:
Looking For	Formula
_	
Already Know	
Answer as a complete sentence	with unit:

E.3 I have a 100 Watt light bulb hooked up to an outlet, which means it has 120 Volts. What is its current?

Looking For	Formula	
Already Know		
Answer as a complete sentence	with unit:	

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E.4 My vacuum cleaner uses 11 Volts. What is its current?	00 Watts, and I hook it up to an outle	et, which means it has 120
Looking For	Formula	
Already Know		-
Answer as a complete sentence	with unit	
Answer as a complete sentence	wiin unii.	
E.5 I have a 300-Watt device, a much voltage does it have?	nd I know there is 2 Amps of current	going through it. How
Looking For	Formula	
Already Know		.i
Answer as a complete sentence		
Answer as a complete sentence	wun unu.	
E.6 I hook up a 4-volt battery, a much power does the light bulb	and it produces a current of 0.3 Amps have?	through my light bulb. How
Looking For	Formula	
Already Know		<u>. </u>
Answer as a complete sentence	with unit:	
E.7 I hook up <i>two</i> 4-volt batteri. How much power does my light	es, and it produces a current of 0.6 Au	mps through my light bulb.
Looking For	Formula	
Already Know		<u> </u>
Answer as a complete sentence	with unit:	
1		

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Answers

E.1 60 Watts

E.2 90 Watts

E.3 0.833 Amps

E.4 9.17 Amps

E.5 150 Volts

E.6 1.2 Watts

E.7 4.8 Watts [remember there are *two* batteries]