Science In Action 9 -	Numerical Response Questions	_	Electrical Princi	ples &	Technologies
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1.	A motor has an internal resistance of 40 Ω
	The motor is in a circuit with a current of
	4.0 A

What is the voltage?

	•	•	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

2. A current of **625 mA** runs through a bulb that is connected to **120V**.

What is the resistance of the bulb?

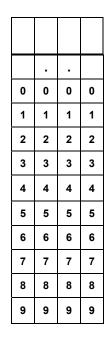
	•	•	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. Match the form with its description

There are four common forms of energy:

- 1 Chemical
- 2 Electrical
- 3 Mechanical
- 4 Thermal

stored	charged	moving	kinetio



- 4. There are many different alternative energy sources including:
 - 1 Tidal
 - **2** Wind
 - **3 –** Solar
 - 4 Waterfall

Match the Type of alternative energy you would most likely find in each region.

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