

## Series and parallel circuits

Name: .....

1. Draw a circuit to including a cell, resistor and voltmeter to show how the voltmeter should be connected to measure the voltage across the resistor.

2. What does a battery give to the charges that flow round an electrical circuit?

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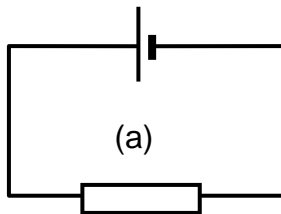
3. Write down another term which means voltage.

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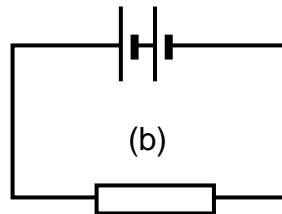
4. Complete the following equation:

Voltage = ...../Charge

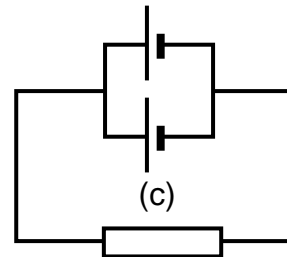
5. If the voltage across the resistor in circuit (a) is 1.5 V and the current flowing through it is 0.5 A what is the voltage across the resistor and current in the resistor in circuits (b) and (c)?  
(All the cells and resistors are the same)



Voltage = 1.5 V  
Current = 0.5 A

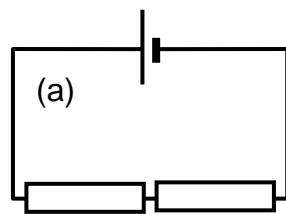


Voltage = ..... V  
Current = ..... A

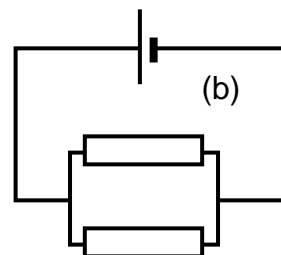


Voltage = ..... V  
Current = ..... A

6. Using the numbers in question 5(a) what is the voltage across each resistor and the current flowing through each resistor in circuits (a) and (b) below?



Voltage = ..... V  
Current = ..... A



Voltage = ..... V  
Current = ..... A