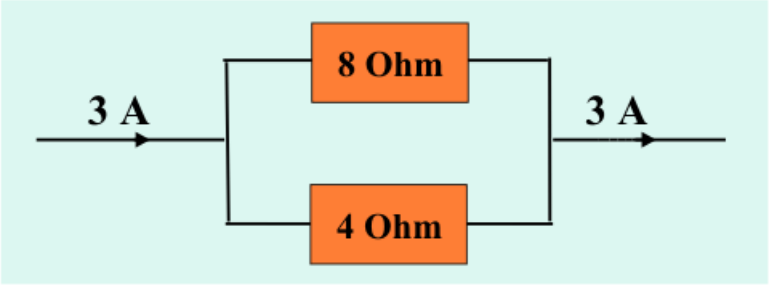
Multiple Choice Online Test
Indicate the correct answer by clicking on the button next to the numbers 1, 2, 3 or 4. There is only one correct answer per question. After you have answered **all** multiple choice questions compare your choices with the correct answers.

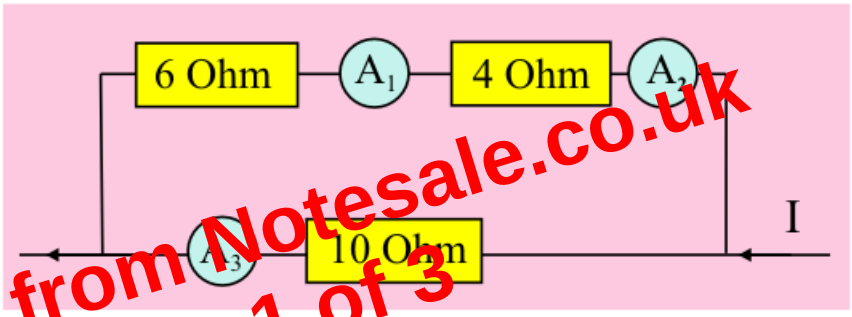
Electricity I

1.) If a current of 3 A is divided by the following circuit, the current flowing through the 4 Ohm resistor is …



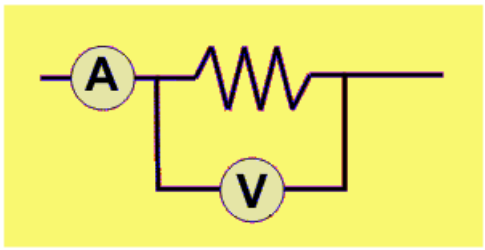
1 ○ 3 A
2 ○ 2 A
3 ○ 1,5 A
4 ○ 1 A
Explanation

2.) The diagram at the right shows part of a circuit into which a current I is flowing. Which ammeter shows the highest reading?



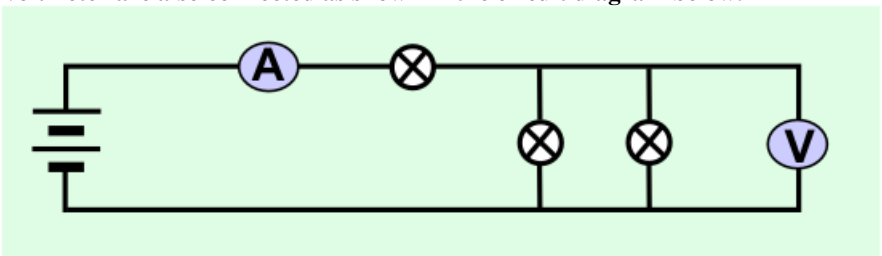
1 ○ A_1
2 ○ A_2
3 ○ A_3
4 ○ All three ammeters give the same reading
Explanation

3.) The diagram to the right represents a part of a circuit containing an ohmic resistor, a voltmeter and an ammeter. If the reading on the ammeter A increases the reading on voltmeter V …



1 ○ increases in the same ratio.
2 ○ increases, but not in the same ratio.
3 ○ remains unchanged.
4 ○ decreases in the same ratio.
Explanation

4.) A battery is connected to two identical light bulbs in parallel as well as another identical bulb in series. An ammeter and a voltmeter are also connected as shown in the circuit diagram below.



One of the light bulbs connected in parallel is unscrewed. How will the ammeter and the voltmeter readings change?