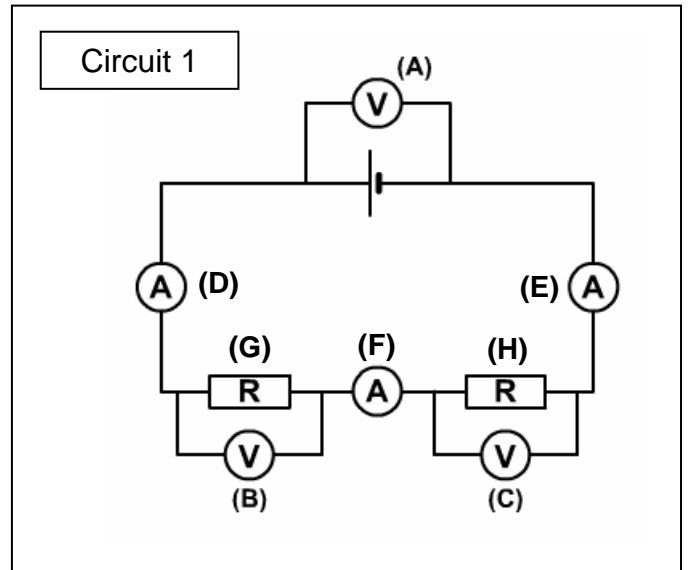
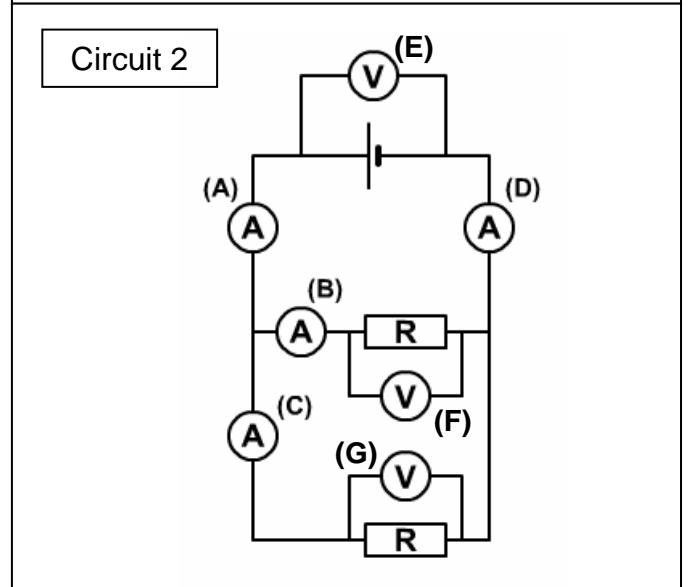


ELECTRICITY – TEST YOURSELF 1

1. Circuit 1 is a series / parallel circuit (circle your choice).
2. If voltmeter (A) reads 12 V and voltmeter (B) reads 4V, what would be the reading on voltmeter (C)?
3. If the current on ammeter (D) is 3A, what would (i) ammeter (E) read (ii) ammeter (F) read?
4. What is the resistance of resistor (G)?
5. What is the resistance of resistor (H)?
6. What is the combined resistance of resistors (G) and (H)?



7. Circuit 2 is a series / parallel circuit (circle your choice).
8. If voltmeter (E) reads 12 V, what would be the reading on (i) voltmeter (F), and (ii) on voltmeter (G)?
9. If the current on ammeter (A) is 6A, what would (i) ammeter (D) read?
10. What is the total resistance in the circuit?
11. If the 2 resistors (R) are identical, what is the current at ammeter (B) and ammeter (C)?
12. Calculate the resistance of either resistor (they are identical).



ANSWERS:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. series 2. 8V 3. (i) 3A (ii) 3A 4. $R=V/I$ $R=4/3 = 1.33\Omega$ 5. $R=V/I$ $R=8/3 = 2.66\Omega$ 6. 4Ω (3.99Ω) | <ol style="list-style-type: none"> 7. parallel 8. (i) 12V (ii) 12V 9. 6A 10. $R=V/I$ $R=12/6 = 2\Omega$ 11. 3A 12. $R=V/I$ $R=12/3 = 4\Omega$ |
|--|---|