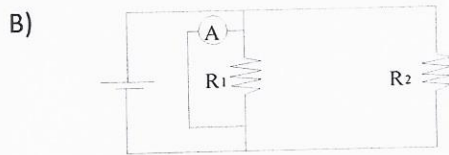
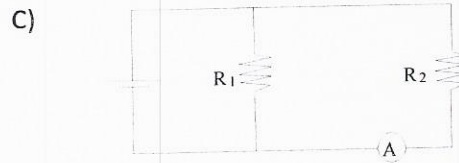
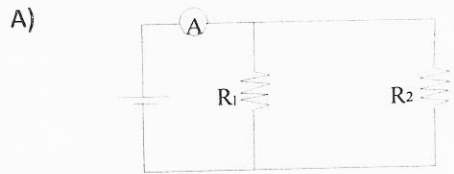
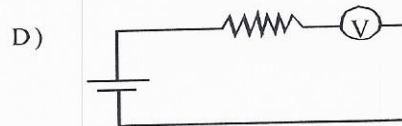
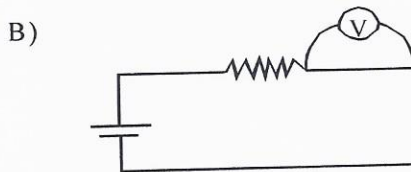
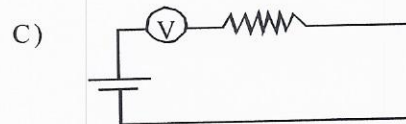
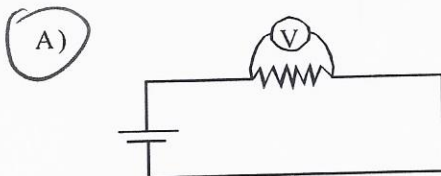


## Ammeter and Voltmeter placement worksheet

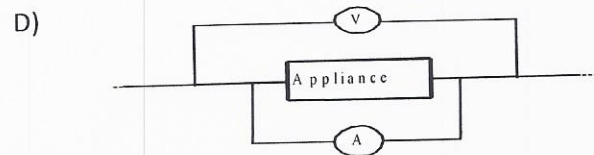
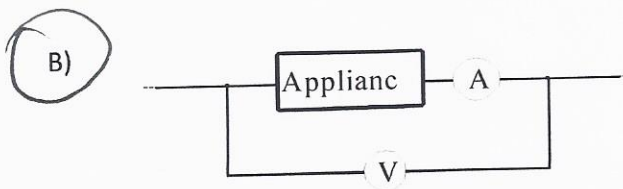
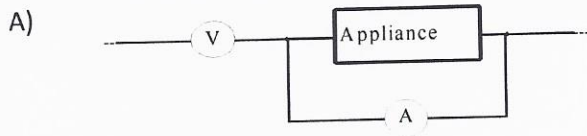
1. You are to connect an ammeter in such a way that you will be able to directly read the current intensity running through resistor  $R_1$ . Which of the diagrams below illustrates the way the ammeter should be connected?



2. You have to connect a voltmeter to determine the potential difference across the terminals of a resistor in a simple circuit. In which diagram below is the voltmeter properly connected?

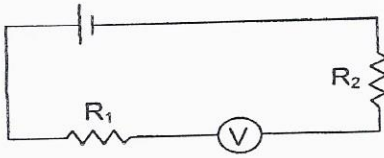


3. How must the ammeter and the voltmeter be connected?

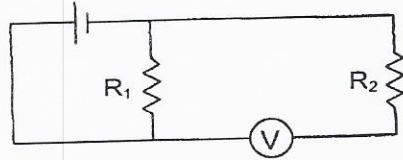


4. Four electric circuit diagrams are given below.

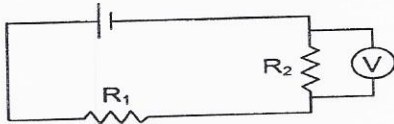
1)



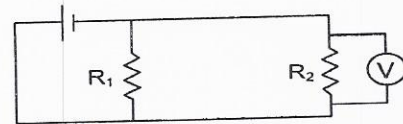
3)



2)



4)



You wish to measure the potential difference across the terminals of resistor  $R_2$ . Which diagrams show a correctly connected voltmeter?

A) 1 and 3

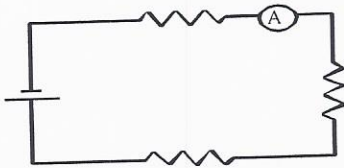
B) 1 and 4

C) 2 and 3

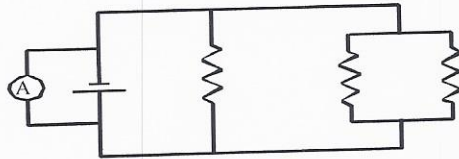
**(D) 2 and 4**

5. Four electric circuits are illustrated below.

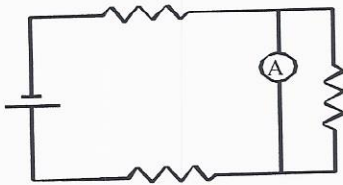
Circuit 1



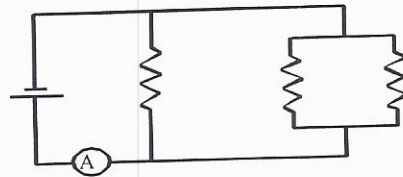
Circuit 3



Circuit 2



Circuit 4



Which two circuit diagrams show the proper connection for an ammeter that measures the total current in the circuit?

A) 1 and 3

**(B) 1 and 4**

C) 2 and 3

D) 3 and 4