Name:
Grade: 7
Physics worksheet

Electrical appliance

Exercise 1: Answer by true or false. Correct the false ones.

1)The Voltage across an open switch is zero.

2)There is only one type of connection which is parallel connection.

3)If two lamps are connected in series, then they have same voltage.

4)Law of uniqueness of voltage is applied in series connection.

5)The voltage across a connection wire is equal to the voltage of the generator.

Exercise 2: A circuit is composed of a battery, a closed switch, two lamps and a connection wire. these two lamps are connected in series. the voltage across lamp (1) is $U_1 = 7V$ and the voltage across lamp (2) is $U_2 = 2V$.

1)Draw the circuit.

2) Is this circuit a closed circuit or an opened circuit? Justify

3)The voltage across the switch is 0V. Justify

4)Calculate the voltage across the battery. (Don't forget to name the law)

Exercise 3: A circuit is composed of a battery, two lamps and a connection wire. These two lamps are connected in series. The voltage across lamp (2) is $U_2 = 9V$.

1)Draw the circuit.

2)Calculate the voltage U_G *across the battery and* U_1 *across lamp*(1)