المدرسة الوطنية الأرثوذكسية الشميساني

The National Orthodox School Shmaisani

Worksheet |

Lower Secondary Stage (6-8)

1st Semester | 2023-2024

Name: _____

Subject: Physics **Topic:** Ohm's Law

Objectives:

- To be able to solve different word equations regarding Ohm's Law

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Using Ohm's Law solve the following problems.

1) What is the resistance of a component if the current going through it is 36A and the voltage across it is 12V?

2) What is the voltage across a component with a resistance of 130 Ω that has a current of 2.5A going through it?

3) What is the current through a component if the component has a resistance of 4.5 Ω and the voltage across the resistor is 60V?

4) If the current through a 10Ω component is 16A, what is the voltage across the component?

5) What voltage is necessary to produce a current of 200 amperes through a component of 10 Ω?

6) What is the voltage if a resistance of 25 Ω produces a current of 250 amperes?

7) What is the current produced by a voltage of 240 V through a resistance of 0.2 Ω?

8) What voltage is necessary to produce a current of 200 amperes through a resistance of 100 Ω?

9) What resistance would produce a current of 120 amps from a 6 V battery?

10) What is the current produced by a 9V battery flowing through a resistance of 200 Ω?