

I'm not robot!

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| <p> $R_T = \underline{\hspace{2cm}}$ $I_T = \underline{\hspace{2cm}}$ $V_T = \underline{\hspace{2cm}}$ $V_1 = \underline{\hspace{2cm}}$ $V_2 = \underline{\hspace{2cm}}$ $V_3 = \underline{\hspace{2cm}}$ </p> | <p> $R_T = \underline{\hspace{2cm}}$ $I_T = \underline{\hspace{2cm}}$ $I_3 = \underline{\hspace{2cm}}$ $V_3 = \underline{\hspace{2cm}}$ $V_1 = \underline{\hspace{2cm}}$ $V_2 = \underline{\hspace{2cm}}$ $I_1 = \underline{\hspace{2cm}}$ $I_2 = \underline{\hspace{2cm}}$ </p> |
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PHYSICS Fundamentals
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9-18

Circuit Worksheet

- Calculate the equivalent resistance of the following combination: $R_{eq} = \underline{\hspace{2cm}}$
- Calculate the equivalent resistance of the following combination: $R_{eq} = \underline{\hspace{2cm}}$
- Complete the table by calculating the total resistance of the following circuit. Then consider total circuit current and the voltage drops and currents for each of the resistors.

| Component | V | I | R |
|-----------|-----|-------|-----|
| R_1 | 10V | 1.00A | 10Ω |
| R_2 | 10V | 0.50A | 20Ω |
| R_3 | 10V | 0.33A | 30Ω |
- Complete the table by calculating the total resistance of the following parallel circuit. Then consider total circuit current and the voltage drops and currents for each of the resistors.

| Component | V | I | R |
|-----------|-----|-------|-----|
| R_1 | 10V | 1.00A | 10Ω |
| R_2 | 10V | 0.50A | 20Ω |
| R_3 | 10V | 0.33A | 30Ω |
- Calculate the missing information in the table for the following parallel circuit.

| Component | V | I | R |
|-----------|-----|-------|-----|
| R_1 | 10V | 1.00A | 10Ω |
| R_2 | 10V | 0.50A | 20Ω |
| R_3 | 10V | 0.33A | 30Ω |

Ohm's Law:

$V = IR$
 $I = \frac{V}{R}$
 $R = \frac{V}{I}$

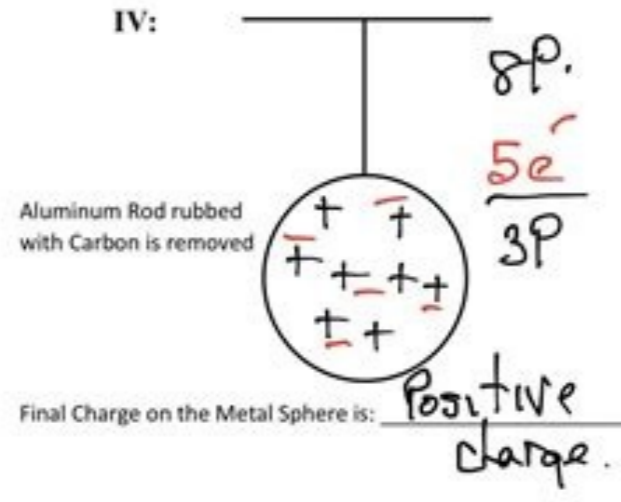
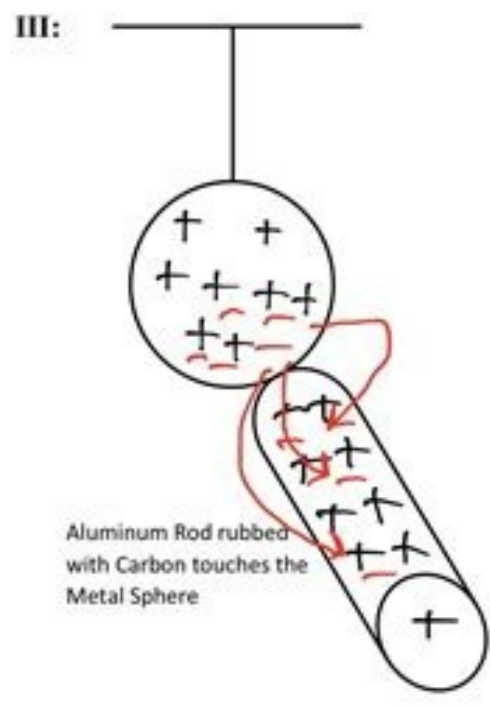
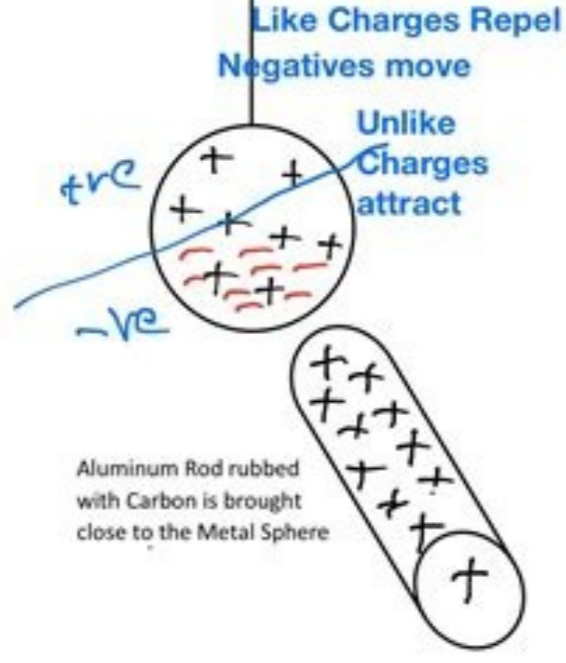
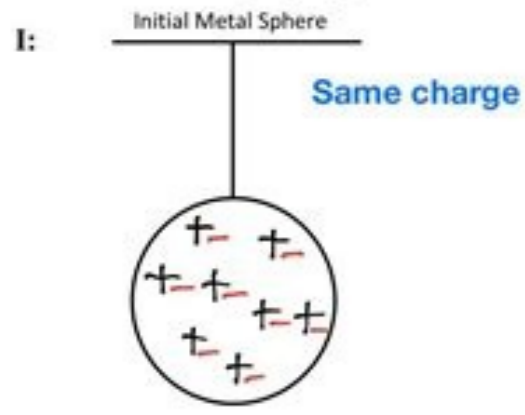
Revision notes

| | |
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| <p>Resistors in series</p> <p>Same current through all the resistors but different voltages across individual resistors.</p> | <p>Resistors in parallel</p> <p>Same voltage across the resistors but different currents through individual resistors.</p> |
| <p>Total resistance R_T $R_T = R_1 + R_2 + R_3 = 10 + 20 + 30 = 60\Omega$</p> | <p>Total resistance R_T $\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} = \frac{1}{10} + \frac{1}{20} + \frac{1}{30} = 0.1 + 0.05 + 0.0333 = 0.1833$ $\Rightarrow R_T = \frac{1}{0.1833} = 5.46\Omega$</p> |
| <p>Total Voltage No need to calculate. Total voltage = 10V</p> | <p>Total and individual Voltages No need to calculate. Voltage across each resistor = 10V</p> |
| <p>Total and individual Currents $I = \frac{V_T}{R_T} = \frac{10}{60} = 0.167A$</p> | <p>Total current $I = \frac{V_T}{R_T} = \frac{10}{5.46} = 1.83A$</p> |
| <p>Individual voltages</p> <p> $V_1 = IR_1 = 0.167 \times 10 = 1.67V$ $V_2 = IR_2 = 0.167 \times 20 = 3.33V$ $V_3 = IR_3 = 0.167 \times 30 = 5V$ </p> | <p>Individual currents</p> <p> $I_1 = \frac{V}{R_1} = \frac{10}{10} = 1A$ $I_2 = \frac{V}{R_2} = \frac{10}{20} = 0.5A$ $I_3 = \frac{V}{R_3} = \frac{10}{30} = 0.333A$ </p> |

Review of Static Electricity and Electrostatics

Complete the following diagrams in order showing ALL of the pertinent charges within ALL of the objects. The initial metal sphere for both process A and B is neutral and contains 8 protons.

Process A - Charging by Contact:



Worksheet: Parallel Circuit Problems - Spreadsheets - Home

Report this resource to let us know if it violates our terms and conditions. Our customer support team will review your report and contact you. Dry cell batteries are the power source used in many small devices such as torches, toys and radios. Provide labels for incandescent bulb parts. The circuits can become quite complicated and a variety of symbols are used to indicate circuit parts. There are two types of electrical circuits, parallels and series. A circuit can be considered open or closed depending on whether the current can pass through the circuit. For each lever it indicates whether it is a lever first, second or third class and labels the following parts: force, fulcrum and load. Ohm's law describes the relationship between current, voltage and resistance. The Ohm law equation can be reorganized as shown in the box to calculate the voltage. The Ohm law equation can be reorganized as shown in the box to calculate the resistance. Use all aspects of the equation with this worksheet. Power describes how the voltage and current combine to produce a work quantity carried out per unit of time and is calculated via the formula in the box. The abbreviation per kilowatt is now kWh and is what the power company charges customers for. In the space below, draw a diagram of a parallel circuit that has a battery, 1 switch and 3 bulbs. Diagram an electric motor using the list of parts under the diagram. In the list, describe the function or purpose of each part. Provide labels on diagrams of a direct current and an alternating current generator below using the list of parts under diagrams. Transformers transfer electricity between circuits. Fill in the blanksPuzzle using your extra words. When a ball is rubbed with a wool cloth, the static electricity is created. Use illustrations to answer questions. Discover the current and the static static In this fourth grade poem. activity includes vocabulary words and understanding questions. 4th grademagnetism worksheet on magnets and magnetism with these scientific printables. Science worksheets index of scientific worksheets available on stw stw



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