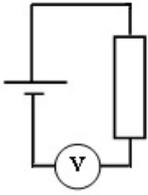
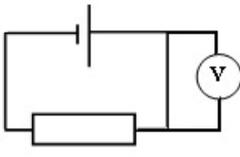
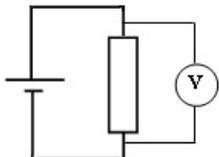
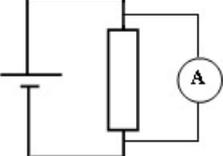
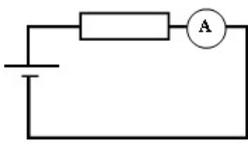
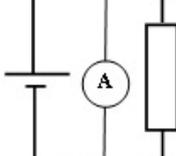
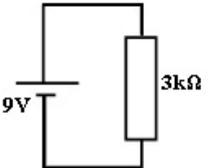
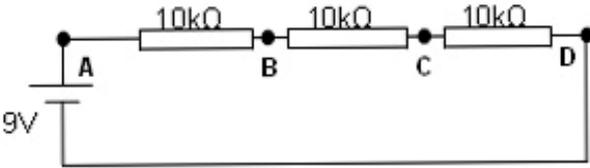


Name: _____ Teacher: _____

<p>(1) A circuit is formed by connecting a resistor across a battery. If we want to measure the voltage across the resistor, which of the following diagrams shows the correct way of connecting a multimeter to the circuit?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(a)</p> </div> <div style="text-align: center;">  <p>(b)</p> </div> <div style="text-align: center;">  <p>(c)</p> </div> </div>	<p>How confident are you of your answer?</p> <p><input type="checkbox"/> 1: Not at all confident</p> <p><input type="checkbox"/> 2: Not confident</p> <p><input type="checkbox"/> 3: Somewhat confident</p> <p><input type="checkbox"/> 4: Confident</p> <p><input type="checkbox"/> 5: Very confident</p>
<p>(2) A circuit is formed by connecting a resistor across a battery. If we want to measure the current flowing through the resistor, which of the following diagrams shows the correct way of connecting a multimeter to the circuit?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(a)</p> </div> <div style="text-align: center;">  <p>(b)</p> </div> <div style="text-align: center;">  <p>(c)</p> </div> </div>	<p>How confident are you of your answer?</p> <p><input type="checkbox"/> 1: Not at all confident</p> <p><input type="checkbox"/> 2: Not confident</p> <p><input type="checkbox"/> 3: Somewhat confident</p> <p><input type="checkbox"/> 4: Confident</p> <p><input type="checkbox"/> 5: Very confident</p>
<p>(3) A circuit is formed by connecting a $3\text{k}\Omega$ resistor (i.e. a 3000Ω resistor) across a 9V battery, as shown in the figure. How much current is flowing through the resistor?</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  </div> <div> <p>(a) 3mA (i.e. 0.003A) (b) 3A (c) 27kA (i.e. 27000A)</p> </div> </div>	<p>How confident are you of your answer?</p> <p><input type="checkbox"/> 1: Not at all confident</p> <p><input type="checkbox"/> 2: Not confident</p> <p><input type="checkbox"/> 3: Somewhat confident</p> <p><input type="checkbox"/> 4: Confident</p> <p><input type="checkbox"/> 5: Very confident</p>
<p>(4) A circuit (below) is formed by connecting three $10\text{k}\Omega$ resistors across a 9V battery.</p> <div style="text-align: center;">  </div> <p>If the 9V battery is fully charged, what should the voltage measure between points A and B?</p> <p>(a) 9V (b) 3V (c) 6V (d) 19V</p>	<p>How confident are you of your answer?</p> <p><input type="checkbox"/> 1: Not at all confident</p> <p><input type="checkbox"/> 2: Not confident</p> <p><input type="checkbox"/> 3: Somewhat confident</p> <p><input type="checkbox"/> 4: Confident</p> <p><input type="checkbox"/> 5: Very confident</p>
<p>(5) Refer to the same diagram above. If the 9V battery is fully charged, what should the voltage measure between points A and C?</p> <p>(a) 9V (b) 3V (c) 6V (d) 29V</p>	<p>How confident are you of your answer?</p> <p><input type="checkbox"/> 1: Not at all confident</p> <p><input type="checkbox"/> 2: Not confident</p> <p><input type="checkbox"/> 3: Somewhat confident</p> <p><input type="checkbox"/> 4: Confident</p> <p><input type="checkbox"/> 5: Very confident</p>