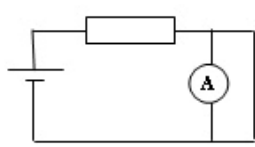
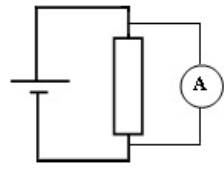
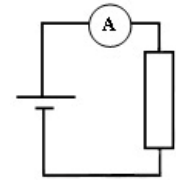
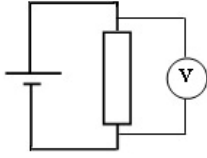
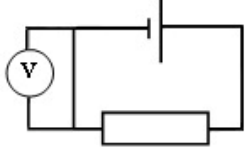
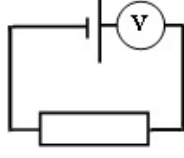
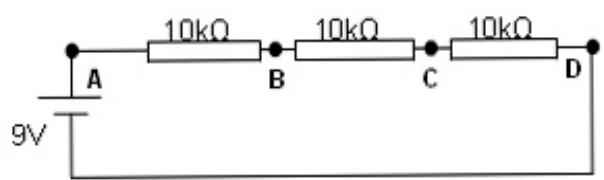


Name: _____ Teacher: _____

<p>(1) A circuit is formed by connecting a resistor across a battery. If we want to measure the current flowing 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 voltage 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) 120V is applied across a light bulb. If the light bulb has a resistance of 144Ω, how much current will flow through the light bulb?</p> <p>(a) 8.3A (b) 0.83A (c) 6A (d) 7.2A</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>(4) A circuit (below) is formed by connecting three $10k\Omega$ 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 C and D?</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 D?</p> <p>(a) 9V (b) 3V (c) 6V (d) 39V</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>