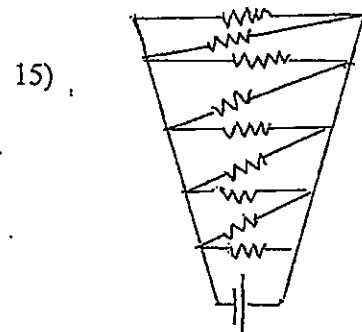
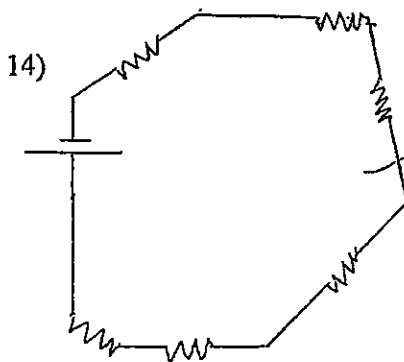
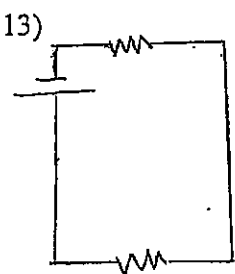
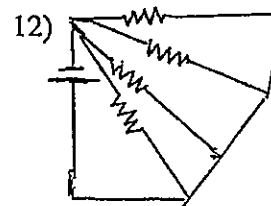
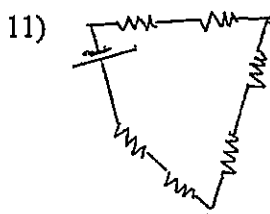
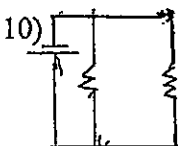
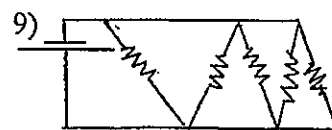
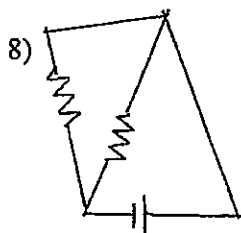
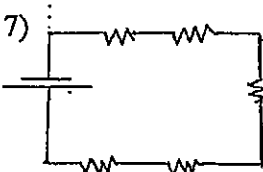
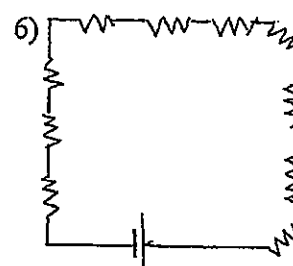
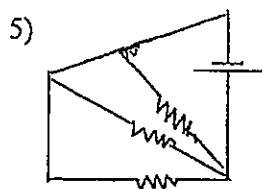
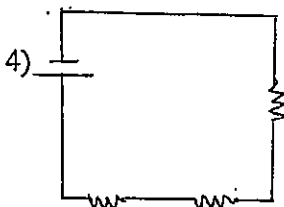
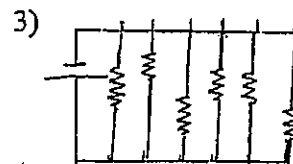
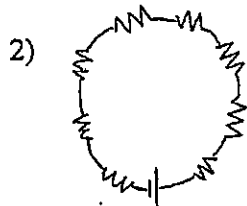
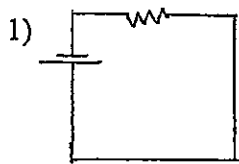


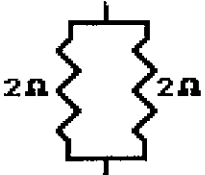
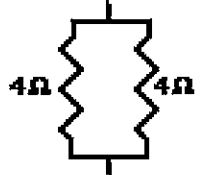
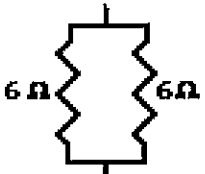
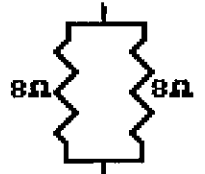
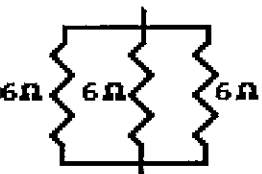
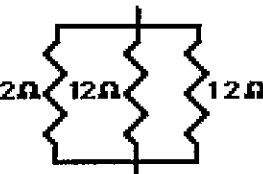
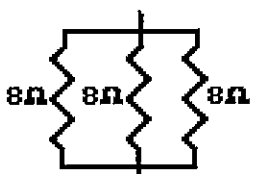
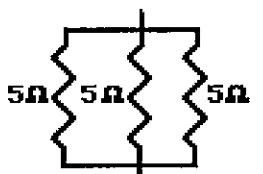
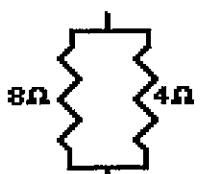
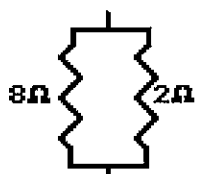
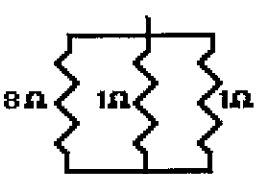
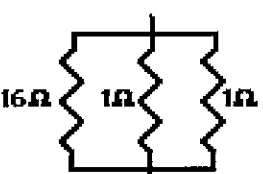
Circuit Worksheet – Series and Parallel Circuits

For each circuit find the total resistance and the current. Assume all resistors are 10 ohm, resistors and all batteries have a potential difference of 1.5 Volts.



Electric Circuits

17. For each of the following branched systems, determine the equivalent resistance.

<p>a.</p>  <p>is equivalent to _____ Ω</p>	<p>b.</p>  <p>is equivalent to _____ Ω</p>
<p>c.</p>  <p>is equivalent to _____ Ω</p>	<p>d.</p>  <p>is equivalent to _____ Ω</p>
<p>e.</p>  <p>is equivalent to _____ Ω</p>	<p>f.</p>  <p>is equivalent to _____ Ω</p>
<p>g.</p>  <p>is equivalent to _____ Ω</p>	<p>h.</p>  <p>is equivalent to _____ Ω</p>
<p>i.</p>  <p>is equivalent to _____ Ω</p>	<p>j.</p>  <p>is equivalent to _____ Ω</p>
<p>k.</p>  <p>is equivalent to _____ Ω</p>	<p>l.</p>  <p>is equivalent to _____ Ω</p>

18. Four resistors are connected in a parallel circuit. Three of the resistance values are known - 3 Ω , 4 Ω and 6 Ω . The overall or equivalent resistance of the four resistors must be _____ Ω . (Choose the one answer that is most informative.)

- a. greater than 3 b. greater than 6 c. greater than 13
 d. less than 13 e. less than 3 f. ... it is impossible to tell.