

Worksheet

Step 3. $V_{AB} =$ _____

Step 4. $V_{BC} =$ _____

Step 5. $V_{CA} =$ _____

Step 6. Demonstrate that $V_{AB} + V_{BC} + V_{CA} = 0$ by substituting the values you found in the equation.

Step 7. $V_{AB} =$ _____

Step 8. $V_{BC} =$ _____

Step 9. $V_{CD} =$ _____

Step 10. $V_{DA} =$ _____

Step 11. Demonstrate that $V_{AB} + V_{BC} + V_{CD} + V_{DA} = 0$ by substituting the values you found.

Question 12. If you want to create a voltage source as close as possible to 12 volts that includes a 9 volt battery, how many AA batteries would you include?

Question 13. On your worksheet, answer the following question: If you want to create a voltage source as close as possible to 18 volts that includes a 9 volt battery, how many AA batteries would you include?