

Goal • Review your understanding of parallel circuits.

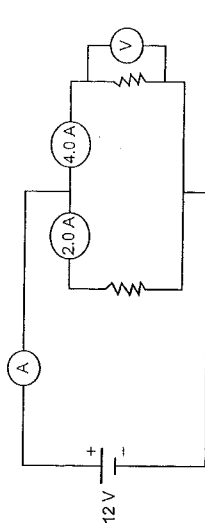
What to Do

Circle the best term in the parentheses to correctly complete each statement.

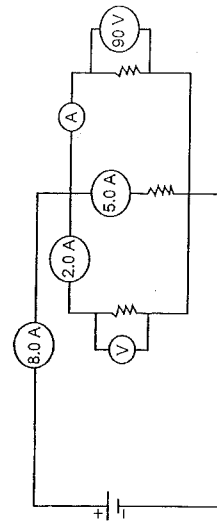
1. A parallel circuit has (*only one, more than one*) path for current to travel.
2. Two different resistors are connected in parallel. The current through one of the resistors will be (*equal to, different from*) the current through the other resistor.
3. If two different resistors are connected in parallel, the voltage across one resistor will be (*equal to, different from*) the voltage across the second resistor.
4. By adding a resistor in parallel with an original resistor, the total resistance of the circuit (*increases, decreases*).
5. The total current entering the junction of a parallel circuit must be (*equal to, different from*) the sum of the currents through each branch of the parallel circuit.

Find the unknown voltage at V, and current at A, in each of the following circuits.

6. Voltage = _____
 Current = _____



7. Voltage = _____
 Current = _____



Goal • Review your understanding of series circuits.

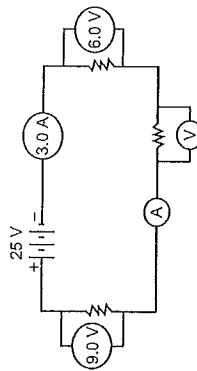
What to Do

Circle the best term in the parentheses to correctly complete each statement.

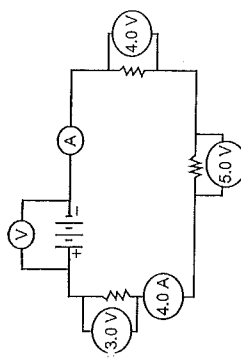
1. A series circuit has (*more than one, only one*) path for current to travel.
2. In a series circuit, the current at one location in the circuit is (*equal to, different from*) the current at another location in the circuit.
3. If two different resistors are connected in series, the voltage across one resistor will be (*equal to, different from*) the voltage across the second resistor.
4. By adding a resistor in series with an original resistor, the total resistance of the circuit (*increases, decreases*).
5. The sum of the voltages across each of the resistors in a series circuit is (*equal to, different from*) the voltage supplied by the battery.

Find the unknown voltage at V, and current at A, in each of the following circuits.

6. Voltage = _____
 Current = _____



7. Voltage = _____
 Current = _____



CHAPTER 8 Calculate the Potential Difference

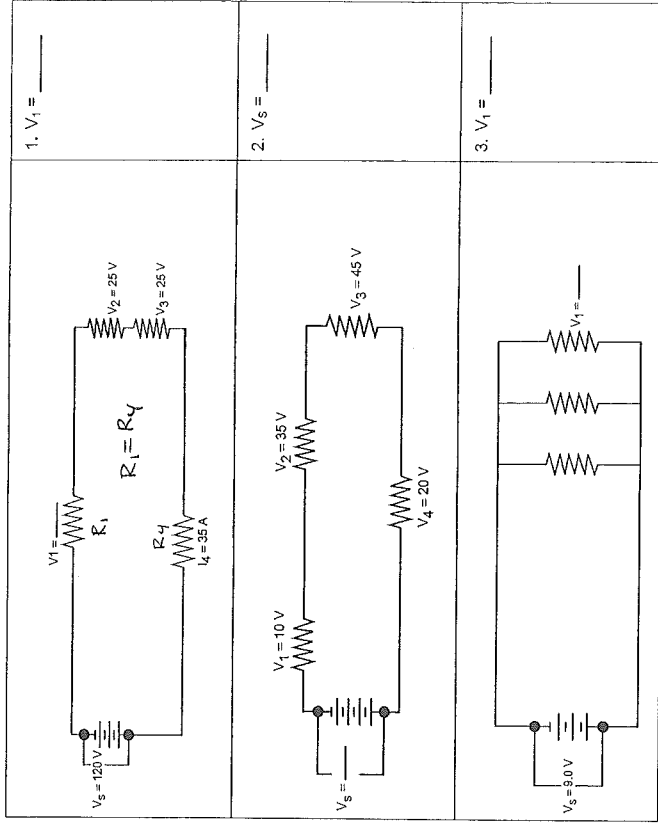
BLM 3-18

Goal • Practise potential difference calculations.

What to Do

Calculate the missing potential difference in each of the following circuit diagrams. The voltage at the source is represented by V_s [V_s]

Diagrams



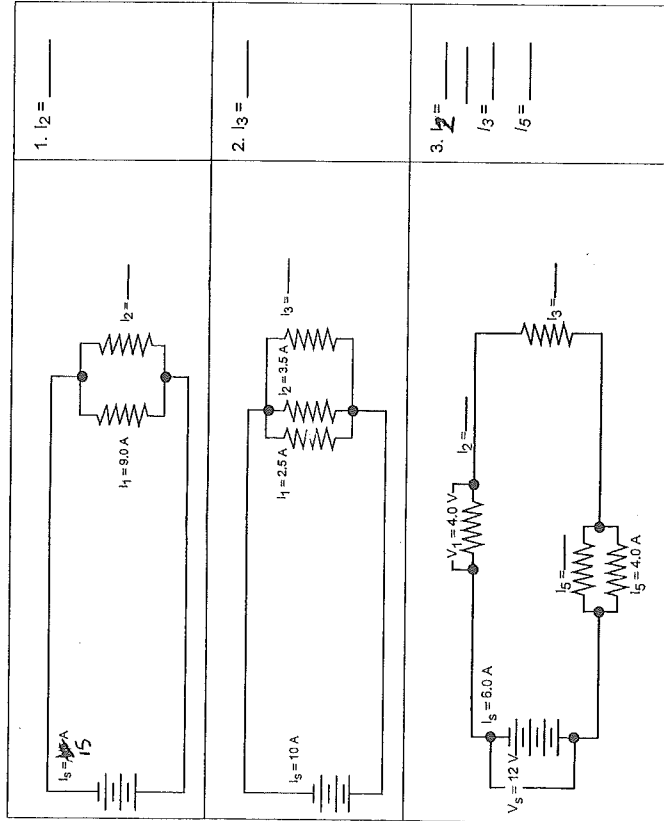
CHAPTER 8 Calculate the Current

BLM 3-17

Goal • Practise calculating current.

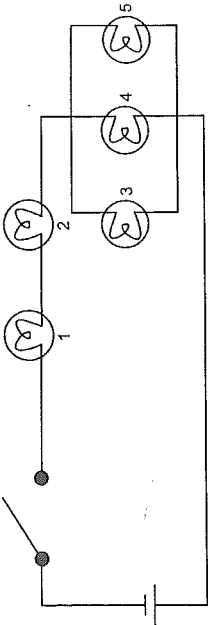
What to Do

Calculate the current in each of the following circuit diagrams. The current at the source is represented by I_s



Goal • Practise interpreting circuit diagrams.

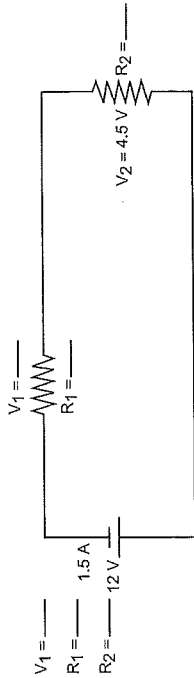
What to Do



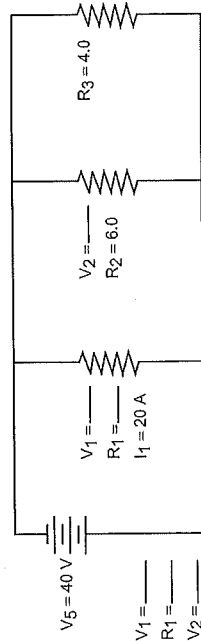
1. Describe what will happen in the circuit shown above if...

- the switch is closed
- the switch is closed and the first bulb is removed
- the switch is closed and the fifth bulb is removed

2. Calculate the missing quantities for the circuit below.



3. Calculate the missing quantities for the circuit below.

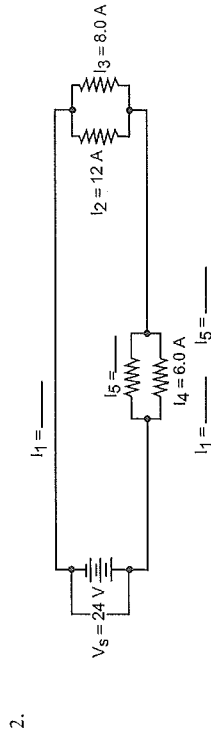
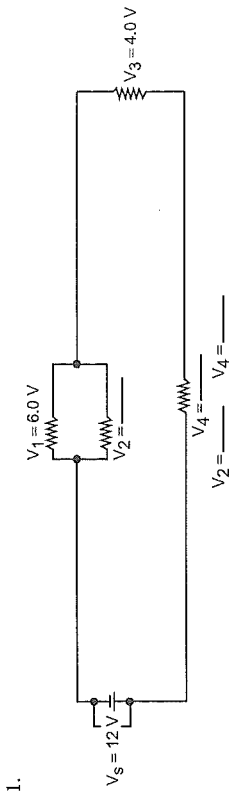


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Goal • Practise calculating voltage and current in a circuit.

What to Do

Calculate the missing values in the circuits below. Be sure to show your calculations.



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