

# BLM Answers

## BLM 6-5 Reading an Ammeter Scale

1. 1 A
2. A. 5, B. 12, C. 19, D. 24
3. 5 A
4. E. 30, F. 55, G. 100, H. 140

## BLM 6-7 Voltage and Current in a Circuit

1. a) closed b) complete c) yes d) yes
2. a) open b) incomplete c) yes d) no
3. a) closed b) incomplete c) no d) no
4. Yes. A battery has voltage, but if the circuit is incomplete, there will be no current.
5. No. Without voltage, the current cannot flow.

## BLM 6-8 Reading a Voltmeter Scale

1. 2/10 or 1/5 V
2. A. 10.6, B. 11.8, C. 13.2, D. 15.4
3. 5 V
4. E. 20, F. 95, G. 175, H. 290

## BLM 6-10 Chapter 6 Word Puzzle

### Across

1. source
2. voltmeter
4. volts
10. current
11. electrical hazard
14. load

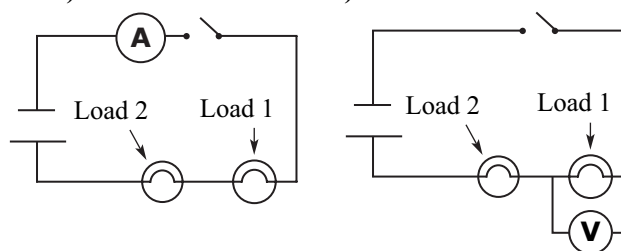
### Down

1. short circuit
3. multimeter
5. checklist
6. switch
7. voltage
8. potential
9. conductor
12. ammeter
13. amperes

## BLM 6-11 Chapter 6 Practice Test

1. b) multimeter
2. c) potential difference
3. a) amperes
4. d) electrical hazard

5. f) checklist
6. e) voltage
7. a) T  
b) T
- c) F. The energy is used by the load and not by the switch.
8. a) The last connection should be to the negative end of the battery.  
b) The switch should be turned off.
9. a) The switch is turned off.  
b) The circuit is not complete (closed).
10. a) b)



## BLM 6-12 Chapter 6 Test

1. e) voltmeter
2. f) voltage
3. d) volts
4. a) current
5. c) ammeter
6. b) short circuit
7. a) F. Voltage can be measured using a voltmeter. Or, Current can be measured using an ammeter (or multimeter).  
b) F. Electric current cannot flow through an open circuit. Or, Electric current can flow through a closed circuit.
- c) T
8. a) The battery on the right needs to be turned around.  
b) A conductor needs to connect the bulb to the negative end of the battery.
9. The wires are not connected properly.
10. a) b)

