

# Automotive Batteries

## Chapter 29



Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### **Basic Battery Principles**

#### **Matching**

- |   |                    |
|---|--------------------|
| 1. ___ Current flowing out of the battery.                        | A. Battery         |
| 2. ___ Consists of Negative & Positive plate                      | B. Discharging     |
| 3. ___ Current flowing into the battery from the charging system. | C. Battery Cycling |
| 4. ___ A device that produces and stores electricity              | D. Battery Plates  |
| 5. ___ Repeated charging and discharging events.                  | E. Charging        |
| 6. ___ Are made of lead and lead oxide.                           | F. Battery Cell    |

#### **Fill in the Blank**

7. \_\_\_\_\_ is a mixture of sulfuric acid and water.
8. \_\_\_\_\_ is made up of positive plates, negative plates, straps, and separators.
9. \_\_\_\_\_ is made of high-quality plastic, which holds the elements and electrolyte.
10. \_\_\_\_\_ is used in batteries because it dose not contain impurities found in tap water.
11. \_\_\_\_\_ is normally a large red cable connected to the battery.

#### **Multiple Choice**

12. A battery which has six cells when fully charged has \_\_\_\_\_ volts.
- a) 6
  - b) 6.6
  - c) 12
  - d) 12.6

13. Electrolyte is a mixture of \_\_\_\_\_ acid and distilled water.

- a) battery
- b) hydrochloric
- c) sulfuric
- d) muriatic

14. An automotive battery produces \_\_\_\_\_.

- a) voltage
- b) direct current
- c) hydrogen gas
- d) all of the above

### **True or False**

15. As battery temperature drops, battery power is reduced. \_\_\_\_\_

16. A parasitic load is any normal accessory circuit current draw present when all electrical devices are shut off. \_\_\_\_\_

17. A maintenance free battery has removable filler caps. \_\_\_\_\_

18. Modern vehicles use a 6.3 volt battery. \_\_\_\_\_

19. A battery cell produces 2.3 volts. \_\_\_\_\_

20. Gases produced by a battery is explosive. \_\_\_\_\_