Go to www.batterycouncil.org, click on Lead Acid Batteries and answer these questions. Copy the answers into the body of the text, and also onto this answer sheet for grading. Copy the words in the blanks only.

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Starting batteries deliver a (1) ________________ of ________________ to start the engine.

Deep-cycle batteries (found on boats or campers) deliver a (2) ________________, ________________ ________________ of power for a ________________ ________________ ________________ than a starting battery.

**How a Battery Is Made**

Batteries are made of five basic components:

A resilient plastic (3) ________________.

Positive and negative (4) ________________ ________________ made of ________________.

Plate separators made of (5) ________________, ________________ ________________ _________________. (6) ________________, a dilute solution of ________________ ________________ and water better known as battery acid.

(7) ________________, the connection point between the battery and whatever it powers.

Most automotive battery containers and their covers are made of (8) ________________.

For a typical 12-volt car battery, the case is divided into six (9) ________________, or cells.

The grids or (10) ________________ are made of ________________ or an alloy of it.

A paste mixture of lead oxide, sulfuric acid and water is applied to the grids. Expander material of powdered (11) ________________ is added to the paste to produce negative plates.

Separators are thin sheets of (12) ________________, ________________ ________________ material used as spacers between the positive and negative plates.

Fine pores in the separators allow (13) ________________ ________________ to flow between the plates while preventing short circuits.

In the next step, a positive plate is paired with a negative plate and a (14) ________________. This unit is called an ________________, and there is one element per battery cell, or compartment in the container. Elements are dropped into the cells in the battery case. The cells are connected with a metal that conducts electricity. The (15) ________________ ________________, or posts, are welded on.

The final step is (16) ________________, or finishing. During this step, the battery terminals are connected to a ________________ of ________________ and the battery is charged for many hours. When the battery is fully charged, it moves to another line where the case is cleaned, if necessary, and the labels are attached.

**Jump Start a Battery**

If the battery is (17) ________________, not dead, you can jump-start it from another fully charged battery. About 30 minutes of driving should allow the (18) ________________ to charge your ________________ ________________ until you take it to a service station for a full ________________.

But if the alternator or another part of the electrical system in your car is damaged, they won't be able to (19) ________________ ________________ ________________. So if your battery keeps discharging, before you replace it, have your (20) ________________ ________________ checked. What looks like a bad battery could be an electrical system problem. If you have a bad component in the electrical system, it will keep draining a new battery, and you'll be stranded again and again.