# Engine Performance Unit 3 Lesson 2

**True / False:**

Determine if each of the statements are true or false.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1. Ethanol’s original automotive use was as an octane booster.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. When lead was removed from gasoline, ethanol was used as a product extender.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Automakers are introducing more flexible fuel vehicles capable of operating on E85 fuel.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. Ethanol is a gasohol that is a high-octane, water-free alcohol made by fermenting sugar.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. Ethanol is used as a blend with gasoline or as a raw material to make high-octane additives.

**Multiple Choice:**

Choose the best answer that completes the statement:

1. Ethanol has the ability to absorb water which eliminates:
   1. Carburetor icing
   2. The need to use a gas line antifreeze
   3. Engine ping
   4. Changing fuel filters
2. The use of a higher octane gasoline:
   1. Will result in increased fuel economy and performance only if engine knock or ping was previously present.
   2. Will decrease fuel economy and performance.
   3. Decreases deposits on intake valves and fuel injectors.
   4. Will decrease vapor lock.