

Drivers Education Worksheet Answer Key:

1. What do the numbers listed on fuel pump buttons represent? For example, 87, 88, 89...
 - a. Answer: Octane ratings, the higher the number the more efficient combustion is
2. Which octane rating is the most commonly used fuel in the United States?
 - a. Answer: 87
3. What is the primary agricultural product used to produce ethanol in the United States? Which state typically leads the nation in production of this product?
 - a. Answer: corn; Iowa
4. How much ethanol does Unleaded88 contain?
 - a. Answer: c. 15 percent
5. Which vehicles are approved to use Unleaded88?
 - a. Answer: d. Both a and b
6. True or False - The following labels are indicators of a flex fuel vehicle...
 - a. Yellow gas cap or label on the fuel door (true)
 - b. An approval notice in the owner's manual (true)
 - c. A label or light on the car's dashboard (false)
 - d. A decal on the driver's side window (true)
 - e. A badge/label on the rear of the car (true)
7. How do flex fuel vehicles differ from other types of vehicles?
 - a. Answer: You can fill your gas tank with any ethanol fuel blend at any time
8. Check all that apply: What is biodiesel made from?
 - Cooking oil
 - Animal hair
 - Animal fat
 - Soybean oil
 - Grass and soil
 - Distillers corn oil
 - Used cooking oil
9. Are gasoline additives, like benzene, xylene, and toluene, considered harmful to humans?
 - a. Yes
10. What helps ethanol burn more completely in the engine than gasoline additives?
 - a. Oxygen
11. Fill in the blank:
 - Ethanol reduces greenhouse gas emissions by almost 50% compared to gasoline.
 - E85 burns significantly cleaner than petroleum gasoline.
 - Ethanol is a renewable fuel.

- More than 98% of the gasoline sold in the United States contains 10% ethanol.
- Unleaded88 is typically dispensed from a blue handle.

12. **Matching:** Draw a line from each type of corn on the left to match to the correct picture on the right.

Field Corn – also called “#2 yellow dent corn”, when the kernel dries, the starch in the seed shrinks, creating a dent at the top of the kernel



Sweet Corn – the kind of corn humans consume, described as “soft, sugary, and ‘milky’” when it is harvested, soft and sticky kernels



Popcorn – small, round kernels. There’s a small amount of water inside of the starch so there are no dents present in the kernels.



Decorative Corn – also known as “ornamental corn”, has hard, multicolored kernels, unlike its counterpart, the field corn, the kernels have no dents, mainly used during the Fall season

