

Name:

Date:

Class:

Lesson 7.6: Power Systems

Know and Understand

Answer the following questions using the information provided in this lesson.

1. The larger the force needed, the _____ the amount of work. (7.6.1)

- A. greater
- B. lesser
- C. quicker
- D. slower

Answer:

2. The application of force over distance is _____. (7.6.1)

- A. work
- B. horsepower
- C. speed
- D. time

Answer:

3. *True or False?* Power is the rate of energy use. (7.6.1)

Answer:

4. Which of the following systems use fluids to perform work? (7.6.2)

- A. Pneumatic
- B. Electrical
- C. Hydraulic
- D. Mechanical

Answer:

5. An internal combustion engine generates power by burning fuel mixed with _____ inside the engine. (7.6.2)
- A. water vapor
 - B. propane
 - C. heat
 - D. air

Answer:

6. The two basic types of internal combustion engines are _____ engines. (7.6.2)
- A. hot ignition and cold ignition
 - B. spark ignition and compression ignition
 - C. compression ignition and expansion ignition
 - D. spark ignition and two-cycle ignition

Answer:

7. Pneumatic systems use _____ to perform work. (7.6.2)
- A. air or gases
 - B. water
 - C. fuel
 - D. liquids

Answer:

8. Which of the following is one reason you should be cautious when working around hydraulic systems? (7.6.2)
- A. They tend to be unreliable.
 - B. A high-pressure hose leak can cause injury.
 - C. Hydraulic fluid evaporates easily.
 - D. They are expensive to repair.

Answer:

9. *True or False?* Structural systems used in agriculture include construction systems such as framing and roofing, as well as building support systems such as plumbing; septic; wiring; and heating, cooling, and ventilation. (7.6.3)

Answer:

10. *True or False?* Computerized systems have not become an integral part of agriculture. (7.6.4)

Answer:

11. *True or False?* Many agricultural machines are not designed to be used for multiple tasks. (7.6.5)

Answer:

12. Incubation and hatching systems are often needed in _____ systems. (7.6.6)

- A. aquaculture
- B. dairy
- C. poultry
- D. livestock

Answer:

13. Oxygen monitoring equipment is needed in _____ systems. (7.6.6)

- A. aquaculture
- B. livestock
- C. forestry
- D. dairy

Answer:

14. *True or False?* When considering a backup or portable power source, the size of the agricultural operation and the vulnerability of its product will dictate the type and size needed. (7.6.7)

Answer:

