

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the difference between summer-blend and winter-blend gasoline?

2) What is Reid vapor pressure?

3) What does the $(R + M) \div 2$ gasoline pump octane rating indicate?

4) What is stoichiometric?

5) How is a flexible fuel vehicle identified?

6) What other gases are often mixed with propane?

7) Why is it desirable to fill a compressed natural gas (CNG) vehicle with the highest pressure available?

8) P-series fuel is made of what products?

9) The Fischer-Tropsch method can be used to change what into gasoline?

10) Biodiesel blends are identified by what designation?

Answer Key

Testname: ENGINES9_SHORT 12

- 1) Winter blend gasoline has a higher RVP rating to allow engines to start when cold. Summer blend gasoline has a lower RVP rating to help prevent vapor-related problem in hot weather.
Page Ref: 128
- 2) RVP is the vapor pressure measured above a fuel sample at exactly 100°F.
Page Ref: 128
- 3) The octane rating indicates the average of the research (R) and motor (M) method octane ratings and what is posted on the gasoline pumps.
Page Ref: 130
- 4) Stoichiometric is the air-fuel ratio where all of the fuel mixes with all of the oxygen in the air and burns completely.
Page Ref: 129
- 5) A flex fuel vehicle can be identified by:
 1. Emblems on the vehicle
 2. Yellow fuel cap
 3. Vehicle identification number (VIN)Page Ref: 137
- 6) Gases often mixed with propane include: butane, propylene, butylene, mercaptan (to add smell).
Page Ref: 139
- 7) The higher the pressure is, the more fuel that is added to the tank and the greater the range of the vehicle.
Page Ref: 141
- 8) P-series fuel is made from: ethanol, MTHF, pentanes, and butanes.
Page Ref: 142
- 9) The Fischer-Tropsch method is used to convert coal, natural gas, and other fossil fuels into gasoline.
Page Ref: 142-143
- 10) Biodiesel blends are identified by the letter "B" followed by the percentage of biodiesel included in the blend, such as B5 or B20.
Page Ref: 146