

Name _____

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

1) What is Reid vapor pressure?

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

3) What are the octane improvers that may be used during the refining process?

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

5) What is stoichiometric?

Answer Key

Testname: SHORT 68

1) The pressure of the gasoline vapor in a closed container measured at 100°F.

Page Ref: 907

2) The major difference is the volatility of the gasoline. Winter gasoline needs to have a higher RVP pressure to ignite at low temperatures, whereas summer gasoline requires a lower RVP to prevent vapors from forming in the fuel system.

Page Ref: 808

3) Octane improvers added in the refining process include: Xylene, toluene, ethanol, methanol, tertiary butyl alcohol (TBA), as well as propane and butane.

Page Ref: 812

4) The pump octane rating is the average of the fuel measured using the Motor and Research method.

Page Ref: 811

5) Stoichiometric is a ratio where all of the fuel is burned with all of the air. The Stoichiometric ratio varies according to the fuel used.

Page Ref: 810