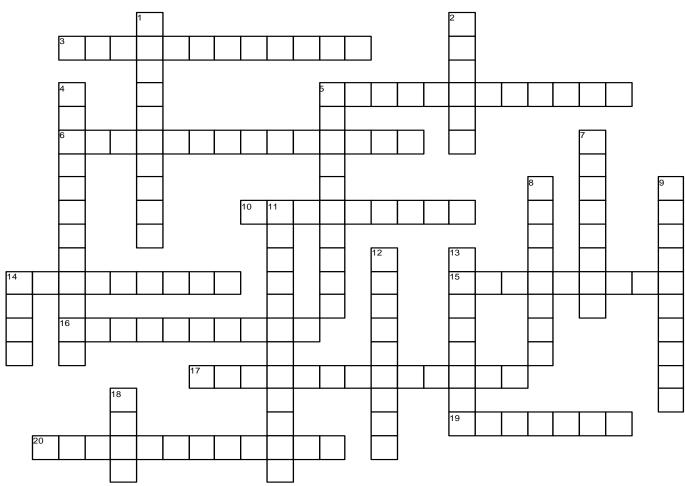
Gasoline

Chapter 5



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ACROSS

- 3 ______gasoline is manufactured to help reduce emissions.
- 5 To predict cold-weather driveability, an index was created called the ______ index.
- 6 The ideal mixture or ratio at which all of the fuel combines with all of the oxygen in the air and burns completely is called the ______ ratio.
- **10** Instead of high heat, today cracking is performed using a catalyst and is called ______ cracking.
- 14 _____ means rock oil.
- 15 The pump octane is called the _____ index.
- 16 ______fuels contain oxygen in the molecule of the fuel itself.
- 17 ______ is similar to catalytic cracking in that it uses a catalyst, but the catalyst is in a hydrogen atmosphere.
- 19 _____is drinkable alcohol and is usually made from grain.
- 20 Besides RVP, another method of classifying gasoline volatility is the _____ curve.

DOWN

1 _____ describes how easily the gasoline evaporates.

- 2 The _____ rating of gasoline is the measure of its antiknock properties.
- 4 In the late 1800s, crude was separated into different products by boiling in a process called ______.
- 5 _____ is another term for engine knock.
- 7 _____ is the process where hydrocarbons with higher boiling points could be broken down into lower-boiling hydrocarbons by treating them to very high temperatures.
- 8 All gasoline is said to be _____, meaning that it is capable of being interchanged because each grade is created to specification so there is no reason to keep the different gasoline brands separated except for grade.
- 9 _____ is another term for engine knock.
- **11** There is a direct relationship between engine airflow and fuel requirements; this is called the _____.
- **12** _____ pressure is the pressure of the vapor above the fuel when the fuel is at 100°F (38°C).
- 13 ______ is a term used to describe a complex mixture of various hydrocarbons refined from crude petroleum oil for use as a fuel in engines.
- 14 _____ is another term for engine knock.
- **18** The _____ standards for winter-blend gasoline allow volatility of up to 15 PSI RVP.

