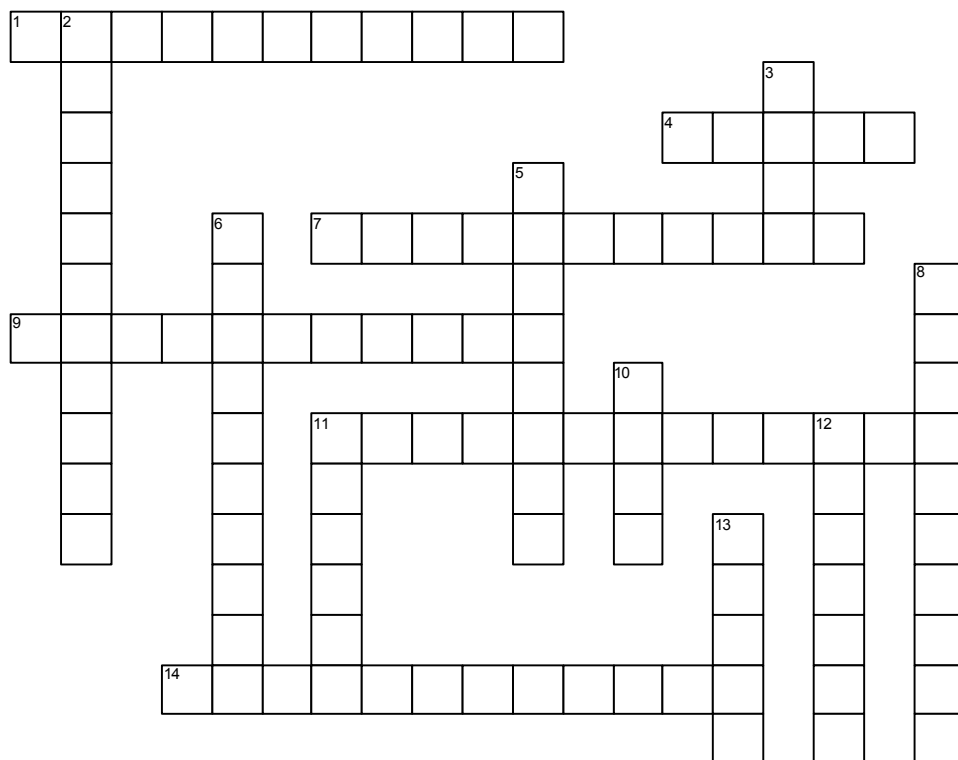


# Tires and Wheels

## Chapter 35



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### ACROSS

- 1 The \_\_\_\_\_ is the ratio of the height from the rim to the tread, compared to the width of the tire.
- 4 \_\_\_\_\_ refers to the part of the tire that contacts the ground.
- 7 The \_\_\_\_\_ requirements include resistance to tire damage that could be caused by curbs, chuckholes, and other common occurrences for a tire used on public roads.
- 9 The point where the majority of the fabrics overlap occur is called the \_\_\_\_\_, which represents the stiffest part of the tire.
- 11 All tires use a valve stem that uses a tire valve stem which contains a tire valve, called a \_\_\_\_\_, to hold air in the tire.
- 14 \_\_\_\_\_ is when the tire leaves the surface of the road and rides on a layer of water.

### DOWN

- 2 A vehicle should never be driven faster than the \_\_\_\_\_ of the tires.
- 3 The \_\_\_\_\_ is the foundation of the tire and is located where the tire grips the inside of the wheel rim.
- 5 The \_\_\_\_\_ is the part of the tire between the tread and the wheel.
- 6 Another name for a body ply is a \_\_\_\_\_.
- 8 The \_\_\_\_\_ is the soft rubber lining on the inside of the tire that protects the body plies and helps provide for self-sealing of small punctures.
- 10 A tire \_\_\_\_\_ is two or more layers of material applied over the body plies and under the tread area only, to stabilize the tread and increase tread life and handling.
- 11 Another name for the center section of the wheel is called the \_\_\_\_\_.
- 12 \_\_\_\_\_ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
- 13 The US DOT and the NHTSA developed a system of tire grading called the \_\_\_\_\_ to help customers better judge the relative performance of tires.