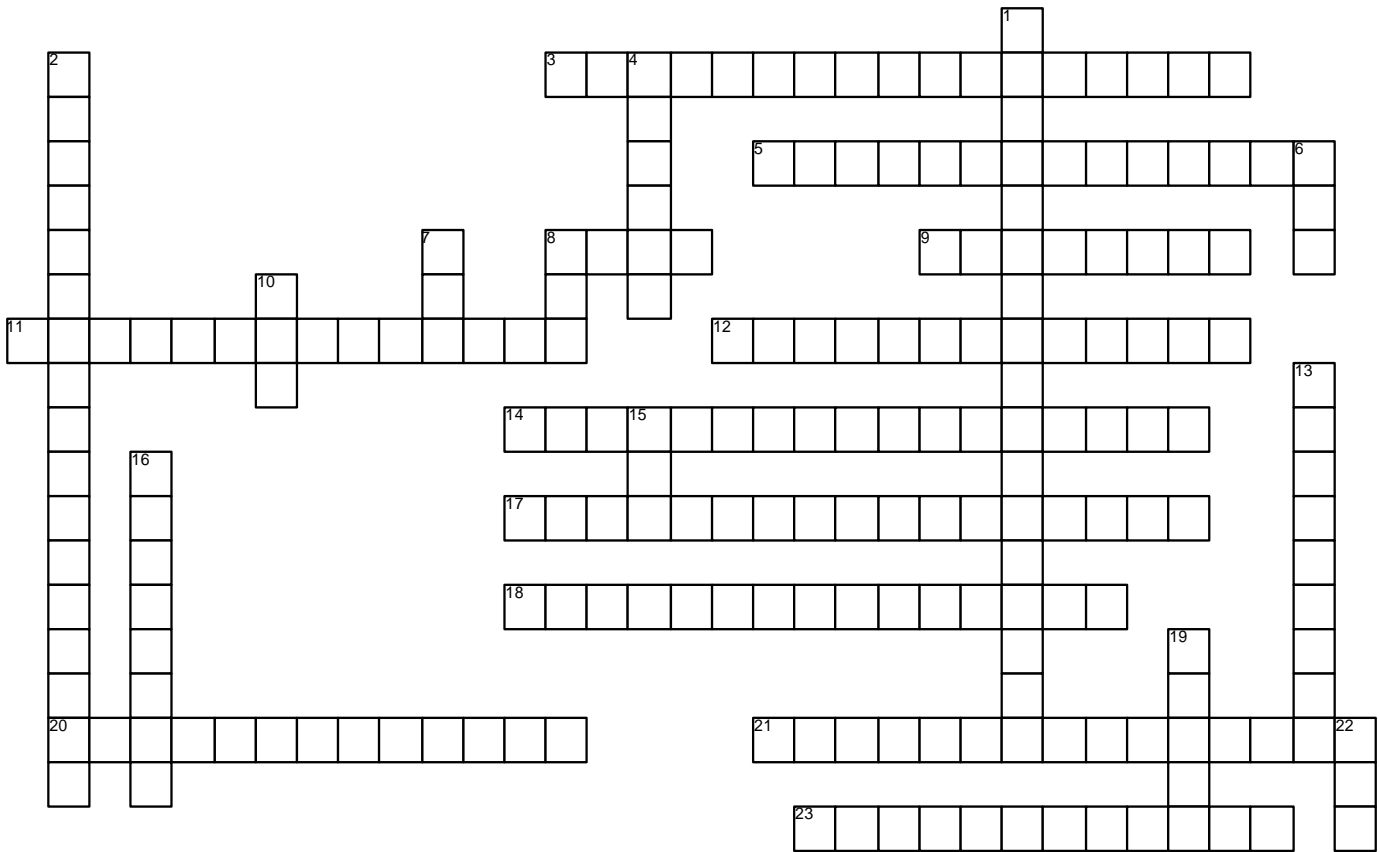


Computer Fundamentals

Chapter 73



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ACROSS

- 3 One of the names for the onboard automotive computer is the _____ module.
- 5 _____ is another name for a crystal oscillator.
- 8 Part of the ROM is built into the computer, and the rest is located in an IC chip called a _____.
- 9 An _____ is an electrical or mechanical device that converts electrical energy into heat, light, or motion.
- 11 _____ can retain its information even when the battery is disconnected.
- 12 _____ creates a three-dimensional performance graph that applies to a given vehicle and powertrain combination.
- 14 One of the names for the onboard automotive computer is the _____ unit.
- 17 _____ is a process that includes amplifying voltage signals that

are too small for the computer circuitry to handle.

- 18 A digital computer changes the analog input signals to digital bits of information through an _____ converter circuit.
- 20 The PCM switches are actually transistors, and are often called _____.
- 21 The _____ can process thousands of digital signals per second because its circuits are able to switch voltage signals on and off in billionths of a second.
- 23 The number system containing only 0s and 1s is called the _____.

DOWN

- 1 The SAE bulletin J1930 standardizes the _____ module as the name of the onboard automotive computer.
- 2 One of the names for the onboard automotive computer is the _____ assembly.
- 4 Most program chips since the early

1990s, called _____ can be reflashed.

- 6 Temporary memory is called _____.
- 7 The abbreviation for the Society of Automotive Engineers is _____.
- 8 _____ is a method of controlling an output using a digital signal.
- 10 A type of volatile RAM called _____ can be wired directly to battery power.
- 13 The ratio of on-time relative to the period of the cycle is referred to as _____.
- 15 The _____ can be considered the brain of a computer.
- 16 The computer's speed is called the _____.
- 19 _____ is a signal from a device that can be as simple as a button or a switch on an instrument panel, or a sensor on an engine.
- 22 Permanent memory is called _____.