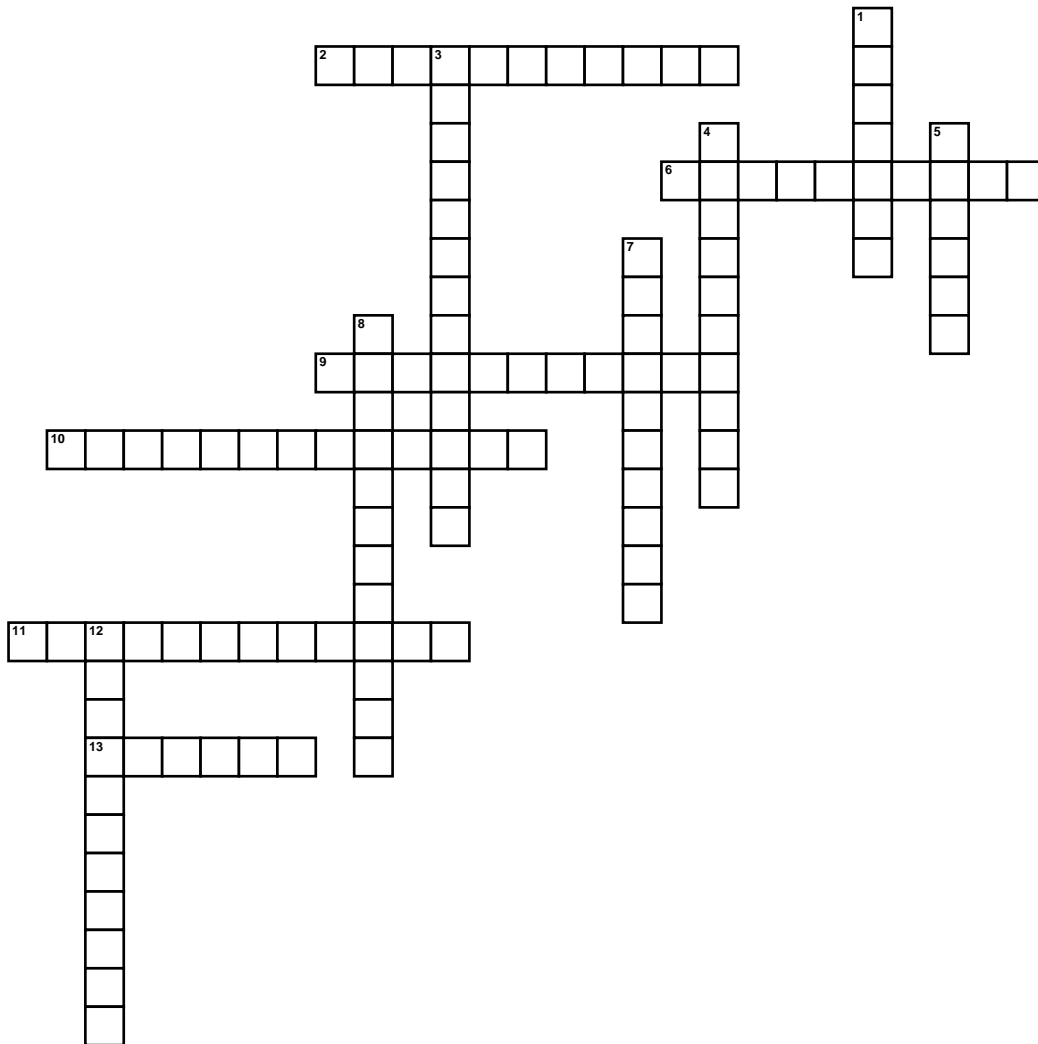


Tools and Fasteners



Across

- [2]** A mechanical measuring caliper with a rotary display scale.
- [6]** A light-duty pneumatic wrench usually with a $\frac{1}{2}$ -inch (12.7 mm) drive used for repetitive high-speed operations.
- [9]** A metal blade precisely finished to a defined thickness; used for measuring clearance and tolerance dimensions. usually found in sets in which thickness graduates by 0.001-inch (0.025 mm) increments. also known as thickness gauges.
- [10]** Heavier wall, softer steel sockets designed for use with impact wrenches.
- [11]** A commonly used production line fastener used in place of a nut and bolt that ensures more accurate clamping pressure.
- [13]** A hex or double hex wrench designed to completely enclose a bolt or nut and evenly apply torque to it.

Down

- [1]** A male thread cutting tool that cuts, finishes, or cleans up female threads in bores.
- [3]** Better known as vise-grips™.
- [4]** A precise measuring instrument typically consisting of a thimble, barrel, and anvil; used to make id, od, and thickness measurements.
- [5]** Impact tool hardened steel bar dressed with a cutting edge and driven by a hammer.
- [7]** A wrench with one fixed and one movable jaw, enabling it to span a wide range of dimensions. the position of the movable jaw is determined by rotating a helical adjusting worm.
- [8]** A rotary abrasive grinder used to dress tools and clean up torch cuts on steel.
- [12]** A wrench with an open end on one side and box end on the other, both of the same nominal dimension.

Solution

