Name Date	Period	

CHAPTER 1

An Introduction to Machining Technology

 $Complete \ the \ following \ questions \ after \ carefully \ reading \ the \ corresponding \ textbook \ chapter.$

1.	The back-and-forth motion of the bow lathe is known as motion.
2.	The first true machine tool was a A. boring mill B. drill press C. shaper D. sawing machine
3.	Henry Maudslay designed and constructed the first A. true machine tool B. lathe capable of cutting accurate screw threads C. boring mill capable of turning a cylinder 36" in diameter D. milling machine capable of making interchangeable parts
4.	What great period in history could not have taken place without the advent of the steam engine?
5.	Eli Whitney A. devised a system for mass production in the 1820s B. was an English inventor and manufacturer who invented the boring mill C. invented the standard measuring system used in the United States D. developed the first multitoothed saw blade
0.	List seven types of power sources.
7.	A drill press is primarily used for A. cutting round holes B. removing metal by rotating or grinding a workpiece C. cutting stock material into manageable lengths D. removing a small amount of machined material
8.	List the names of at least three machining operations that have <i>not</i> evolved from the lathe.
9.	The early control system designed by MIT operated on instructions coded in thesystem.

1

10.	In the mid-1970s, the introduction of the made the use of onboard computers on individual machine tools possible.
11.	CNC machine tools A. use computer programs supplied on punched tapes B. require extensive knowledge of programming languages C. are more difficult to use than manually controlled machines D. offer better repeatability and accuracy than manual machine tools
12.	The use of systems for loading and unloading permits some machine tools to operate unattended during the entire machining cycle.
13.	List at least three of the decisions that a machinist must make before manufacturing a part.
14.	Machinists usually take part in a multiyear program. A. internship B. degree C. apprentice D. survey
15.	The National Institute for Metalworking Skills (NIMS) uses as the basis for industry-recognized certification through performance testing.