

Student Name _____ Date _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Bores of machined parts such as gears and pulleys are not made by drilling in a lathe without further machining because because drills: 1) _____
 - A) Make bell mouthed holes that must be corrected by reaming or boring
 - B) Are not made for standard shaft sizes
 - C) Tend to produce undersized holes that run eccentric to the workpiece axis
 - D) Tend to produce oversize holes that run eccentric to the workpiece axis
- 2) The main advantage of boring over reaming in the lathe is that: 2) _____
 - A) Better finishes are obtainable
 - B) Boring corrects any eccentricity in the bore and reaming does not
 - C) Boring corrects axial misalignment and reaming does not
 - D) The process of finishing the bore to a precision diameter can be done more quickly
- 3) Three boring operations include (choose two) 3) _____
 - A) Through boring, thread relief and knurling
 - B) Through boring, countersinking and drilling
 - C) Through boring, counterboring and internal grooving
 - D) Through boring, facing and threading
- 4) A machine reamer finish can be improved by: 4) _____
 - A) Leaving more material to remove when reaming
 - B) Running a hand reamer through the bore
 - C) Running a rose reamer through the bore
 - D) Boring with a finishing tool
- 5) What is the purpose of a thread relief groove for internal threading? 5) _____
 - A) To provide a place for the tool to pass out of the thread
 - B) To take pressure off the cutting tool
 - C) To prevent breaking a tap
 - D) Stress relieve the part being threaded
- 6) Taps used for lathe tapping are: 6) _____

A) Taper, plug and bottoming	B) Spiral, plug and taper
C) National fine, National coarse and taper	D) Plug, bottoming and spiral point
- 7) Parting tools can jam in the cut and break as a result of: 7) _____

A) Cutting speed that is too high	B) Lack of cutting oil or too heavy feed
C) The tool is set above center	D) Feed that is too light
- 8) Some ways to prevent chatter when cutting off material with a parting tool are to use: 8) _____
 - A) A light hand feed, low speed that makes a chip, low speed, cutting oil and a rigid setup
 - B) A heavy feed, low speed and cut off the material near the chuck or near the tailstock center
 - C) Coolant, feed in very slowly and use very high speed
 - D) Diagonally ground parting tools, use heavy power feed and a high speed

9) Ordinary knurls make a pattern on the workpiece by:

- A) Displacing the material
- B) Cutting the material
- C) Compressing the material
- D) All of the above

9) _____

10) Three reasons knurling is done on workpieces are:

- A) For press fits, appearance and a gripping surface
- B) To cover up errors by increasing the diameter of a part, for tool handles and press fits
- C) For tool handles, to resist corrosion and for appearance
- D) None of the above

10) _____