

## Homework - Countersinking and Counterboring

Student Name \_\_\_\_\_ Date: \_\_\_\_\_

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

- 1) To chamfer a hole, use a: 1) \_\_\_\_\_  
A) Countersink B) Reamer C) Chamfer file D) counter bore
- 2) To provide a tapered hole for a flat head screw, use a: 2) \_\_\_\_\_  
A) Counterbore B) Center drill C) Countersink D) Taper reamer
- 3) A counterbore is used to: 3) \_\_\_\_\_  
A) Make center holes in shafts B) Enlarge holes to recess a bolt head  
C) Make seats for flat head screws D) All of the above
- 4) Spotfacing is done with a: 4) \_\_\_\_\_  
A) Countersink B) Spotting drill C) Spotfacer D) Counterbore
- 5) Which inch size pilot should be used in a .500 inch diameter hole? 5) \_\_\_\_\_  
A) .498 B) .502 C) .505 D) .490
- 6) The cutting speed used with a counterbore when compared with an equal size twist drill is: 6) \_\_\_\_\_  
A) One-third more B) The same  
C) One-third less D) None of the above
- 7) The included angle of a center drill is \_\_\_\_\_ degrees? 7) \_\_\_\_\_  
A) 90 B) 30 C) 60 D) 120
- 8) Most commonly used flat head screws have a head angle of \_\_\_\_\_ degrees. 8) \_\_\_\_\_  
A) 72 B) 82 C) 52 D) 60
- 9) Before starting to counterbore a hole: 9) \_\_\_\_\_  
A) Lubricate the drill press spindle B) Reduce the feed by one-third  
C) Lubricate the pilot D) All of the above
- 10) The most important factor when counterboring is: 10) \_\_\_\_\_  
A) The feed rate B) The kind of coolant used  
C) Cutting speed D) To fasten the work securely