

Homework - Non-Cutting Hand Tools

Student Name _____ Date _____

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

- 1) Parallel clamps are mostly used for: 1) _____
 - A) Clamping workpieces on machines such as drill presses
 - B) Holding hardened steel precision parallels
 - C) Holding work for delicate measuring and layout setups
 - D) Clamping workpieces on the bench for filing and sawing
- 2) C-clamps are mostly used by machinists for: 2) _____
 - A) Holding delicate measuring and layout setups
 - B) Holding vises on milling machines and shapers
 - C) Clamping workpieces on the bench for filing and sawing
 - D) Clamping workpieces on machines such as drill presses
- 3) Large water pump pliers can be used: 3) _____
 - A) For any bolt and nut it will extend to fit
 - B) To loosen arbor nuts
 - C) For unfinished packing nuts, pipe and pipe fittings
 - D) All of the above
- 4) One type of tool that is least likely to slip when holding small parts, is the: 4) _____
 - A) Parallel jaw cutting pliers
 - B) Slip joint pliers
 - C) Lever jawed wrench
 - D) Water pump pliers
- 5) Ball peen hammers under 10 oz. may be used for: 5) _____
 - A) Hammering on wrench handles to break loose stubborn threads
 - B) Repositioning work in a machine vise
 - C) Layout work
 - D) General heavy bending and hammering
- 6) When adjusting a finished work piece in a machine vise, use a: 6) _____
 - A) Plastic or rawhide mallet
 - B) Maul
 - C) 8 ounce ball peen hammer
 - D) 3 pound ball peen hammer
- 7) An advantage of the adjustable wrench is that one tool can be used for many sizes. What is one of its disadvantages? 7) _____
 - A) If it is adjusted too loosely, it will slip and round off the nut or bolt head. This is also hard on the users knuckles
 - B) It is bulkier than an end wrench and will not fit in some places
 - C) A and B above
 - D) There are no disadvantages
- 8) Pipe wrenches should be used only on: 8) _____
 - A) Nut and bolt heads
 - B) Ground and polished surfaces
 - C) Pipe and pipe fittings
 - D) None of the above

9) Standard screwdrivers will slip and damage the slot if:

9) _____

- A) The blade is too narrow or too wide
- B) The point is misshapen
- C) The hardness or temper has been drawn out by overheating
- D) All of the above

10) When clamping parts with finished surfaces in a bench vise:

10) _____

- A) They should be gripped very lightly so that rough jaws will not mar finished surfaces
- B) They should be gripped very lightly so the smooth surface will not cause it to slip out of the jaws
- C) Soft jaws should be used
- D) A cheater should be used on the handle to gain leverage