

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