Assessment

WORKING WITH LATHES

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Name: .................................................................

Date: .................................................................

I.D. (if applicable): ..................................................

Score

1. The _______ houses the motor and provides the means to accurately hold and rotate the work:
   a) tailstock
   b) carriage
   c) headstock
   d) saddle

2. The most important thing to do before you attempt to operate the lathe is:
   a) to turn it on
   b) to make yourself familiar with all the parts and the function of each part
   c) pull the levers
   d) to traverse the handwheel in a familiar fashion

3. The tailstock is clamped to the bed by:
   a) a clamp operated by a lever
   b) the spindle
   c) buttons next to the on switch
   d) a lever operated saddle

4. Before operating the carriage the slide ways must be ______ and ______:
   a) washed and shaved
   b) polished and dried
   c) cleaned and lubricated
   d) bright and sparkly
5. To establish the maximum dimensions of work that can be turned on your lathe:
   a) measure the size of clamps and their distance from the apron
   b) measure the distance between the carriage and the spindle
   c) measure the distance from the centre of the headstock spindle to the top of the cross lines.
   d) measure the headstock

6. The levers provided on the head stock enable:
   a) the clamps to come undone
   b) the tool post to move away from the head stock
   c) the motor to turn on and off
   d) the gear ratios to be changed

7. Always start the spindle with the ______ allowing the machine to warm up:
   a) slower speed
   b) fastest speed
   c) highest speed
   d) super speed

8. A finish cut requires a slightly higher cutting speed and a much finer ______ and _____ for it to be accurate:
   a) speed and material
   b) depth and feed
   c) clamp and motor
   d) all of the above

9. All lathe operations require cutting fluids which provide a:
   a) cooling and roughening action
   b) cooling and lubricating action
   c) spinning and heating action
   d) lubricating and heating action

10. In order to perform a lathe operation you need a:
    a) sander as referred to in the handbook
    b) hose as referred to in the monograph
    c) cutting tool as referred to in the monograph
    d) hammer as referred to in the handbook