Answer the following questions using any course materials (notes, hw, etc.) but do not work with other students. If you mark a T/F question / statement FALSE, correct the underlined word to make it TRUE.

**Which of the following is not a common component of an engine lathe:**
A. headstock  
B. cross slide  
C. tool post  
D. tailstock  
E. ram

**What rotates on a lathe:**
A. the cutting tool  
B. the chuck  
C. the material / workpiece  
D. answers B & C  
E. none of the above

**Turning is a metal cutting process used mainly for the generation of rectangular surfaces.**  
TRUE / FALSE

**Which of the following is not a common workholding method on a lathe:**
A. holding in a chuck  
B. holding between centers  
C. holding in the tailstock  
D. holding in a collet  
E. none of the above

**When operating a lathe the tool bit should typically be positioned:**
A. above center to obtain better surface finish  
B. below center to enhance chip evacuation  
C. directly on the spindle centerline  
D. none of the above

**Milling is a metal cutting process used primarily for the generation of cylindrical surfaces.**  
TRUE / FALSE

**What rotates on a milling machine:**
A. the material / workpiece  
B. the cutting tool  
C. the spindle  
D. answers B & C  
E. none of the above

**Common types of milling machines include:**
A. knee and column mills  
B. bed mills  
C. turret mills  
D. drill mills  
E. A & B above

**Which of the following is the most common workholding method on a milling machine:**
A. holding in a chuck  
B. holding between centers  
C. holding in a vise  
D. holding in a collet  
E. holding in your hands

**Explain the difference between relay and proportional control:**
__________________________________________  
__________________________________________  
__________________________________________  
__________________________________________  
__________________________________________

**List five benefits to using 80/20:**
1. __________________________________________  
2. __________________________________________  
3. __________________________________________  
4. __________________________________________  
5. __________________________________________
List three things you found helpful or interesting with last week’s background research, or homework:
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