

<b>Last Name:</b>	
<b>First Name:</b>	
<b>Class:</b>	
<b>Grade:</b>	<b>Converted to Final Grade:</b>

**Intermediate Engineering Graphics**  
**Instructor: Edward N. Locke**

## Quiz 8: Thread & Fasteners

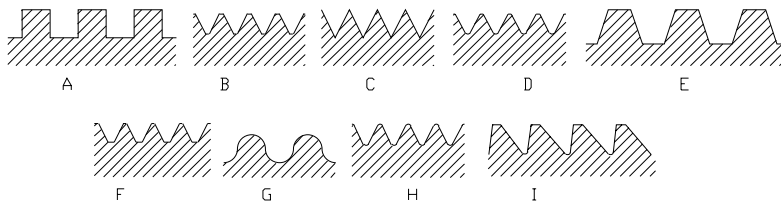
(1) Circle all correct statements about threads and fasteners

- The thread on a typical screw is an example of external thread.
- The thread on a typical hole is an example of external thread.
- In one turn, multiple threads advances farther and thus faster than single thread; and therefore are for quick motion.
- The only uses of screw threads are to hold things together and to transmit power.
- Three graphic conventions are used to represent threads: detailed, schematic, and simplified. The detail form is used more often than the schematic and the simplified forms.

(2) Identify different types and forms of thread

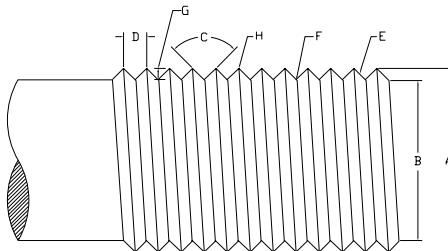
- |                        |                                  |
|------------------------|----------------------------------|
| 1. ___: Acme thread    | 5. ___: American National thread |
| 2. ___: Unified thread | 6. ___: Metric thread            |
| 3. ___: Sharp V thread | 7. ___: Whitworth thread         |
| 4. ___: Knuckle thread | 8. ___: Buttress thread          |

### Forms of Threads



(3) Identify parameters or parts of a screw thread

- |                         |               |
|-------------------------|---------------|
| 1. ___: Angle of thread | 5. ___: Pitch |
| 2. ___: Depth of thread | 6. ___: Crest |
| 3. ___: Major diameter  | 7. ___: Root  |
| 4. ___: Minor diameter  | 8. ___: Side  |



(4) Circle all correct statement on fits:

- Class 1  $\square$  and 1  $\square$  fits Unified screw threads are used for highly accurate and close-fitting.
- Class 2 fit American National threads are used for the production of high quality and interchangeable screw thread.
- The Unified Class 3  $\square$  and 3  $\square$  fits threads, as well as the American National Class 3 fit thread are used for high accuracy and close-fitting.
- Class 1 fit American National Threads have generous clearance and are good for rapid assembly.