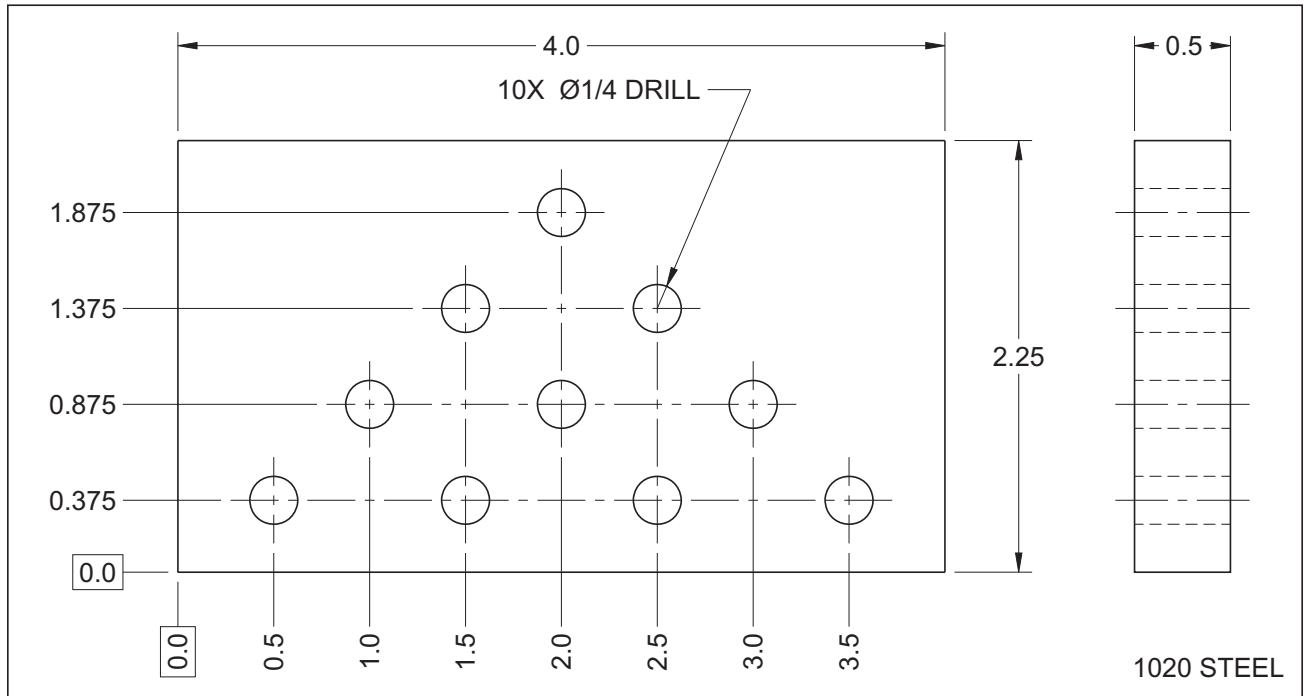


This is quite a simple project. Develop a complete program for two tools - a spot drill and a drill - to machine the ten holes, according to the drawing. The challenge is to make the program as efficient as possible, *without* using subprograms. When completed, answer the three questions at the bottom of this page.



Answer the following three questions:

1. If a 1/4-20 tap were required (rather than just a drill) - what changes in the program would be required ?

---

2. What is a suitable chamfer size to break sharp corners on the above holes ?

---

3. What methods of programming can be used to make the program as short as possible ?

---