* **Wireless access point** – layer 1 – data collision due to all sharing one port. Collisions become more noticeable the more devices connected.
* **Switch** – layer 2 – no collisions as each have their own port – problem is broadcast storms all ports receive the broadcast. If all are broadcasting bandwidth goes down. Broadcast cannot pass layer 3 so router can block broadcast.
* **Advantage of routers** is that is subnets so can prevent broadcast storms going to other subnets.
* **Telnet** allows remote access to the router from PC it is virtual not a physical port.
* **Passwords** in router are a form of security to prevent access to router configuration.
* **PC** has client software, but it is a user.

Points for report (no correct way just need to show and justify the design)

1. 50 employees but only 40 machines, if all 50 are in then how will they be accommodated? Maybe user wireless access point for those extra 10 people.
2. 3T (topology, technology, type) – type is what type of network LAN, WAN, CAN.
3. Make sure to justify why. For example, not using more routers because its expensive.
4. **Start from just making sure everything is connected then once that is done start adding more.**