1)	What are the five layers in the Internet Protocol Stack? Layer 1: Physical Layer Layer 2: Data-Link Layer Later 3: Network Layer Layer 4: Transport Layer Layer 5: Application Layer
2)	What are some responsibilities of the Application Layer?  Determine destination IP address  Support network applications  Decide which data which will transit the internet
3)	The <u>Transport</u> layer manages communications from <i>process</i> to <i>process</i> .
4)	As a packet is being constructed and passed "down" to the next layer of the internet protocol stack, a new "header" is added. This process is called <a href="encapsulation">encapsulation</a>
5)	The <i>payload</i> (non-header portion) of a transport-layer segment is <u>application data</u>
6)	What are some reasons for the layering of network protocols?  Protocols can be tested independently of one another  When maintenance is required at one level, changes do not affect other layers  Can update a the inner workings of a protocol, as long as input/output remain the same  The complication of dealing with the intermeshed types of hosts and data is lessened
7)	What are the seven layers in the ISO protocol stack? Layer 1: Physical Layer Layer 2: Link Layer Layer 3: Network Layer Layer 4: Transport Layer Layer 5: Session Layer Layer 6: Presentation Layer Layer 7: Application Layer