CS425A: Homework 3

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1. The value in the upper layer protocol field is ICMP
2. Header has 20 bytes.
   Total length is given as 56 bytes and the header consists of 20 bytes .
   Thus payload length = 56 - 20 = 36 bytes.
3. No, because :

   - the More fragment field is not set i.e. equal to 0 which indicates that there are no more fragments of this datagram.

   - fragment offset is 0 which indicates that this datagram had no fragments prior to this fragment.

4. Identification field = 0x80b2
   TTL field = 1
5. YES
6. Because the more fragments flag is set i.e. equal to 1.
7. Fragment offset is set to 0 which indicates that this fragment is the first one.
8. Fragment offset is not set to 0 which indicates that this fragment is not the first one.
9. No as the more fragments flag is not set i.e. equal to 0.
10. Following are the changes:

   - More fragments flag is unset (from 0 to 1)

   - Frag offset is changed from 0 to 1480

   - total length is changed from 1500 to 520 bytes

   - header checksum is changed from 0xda69 to 0xfd84