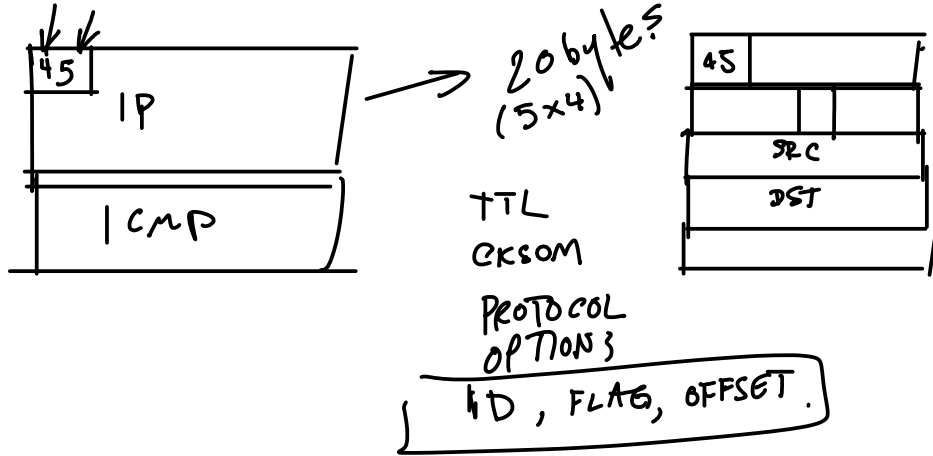


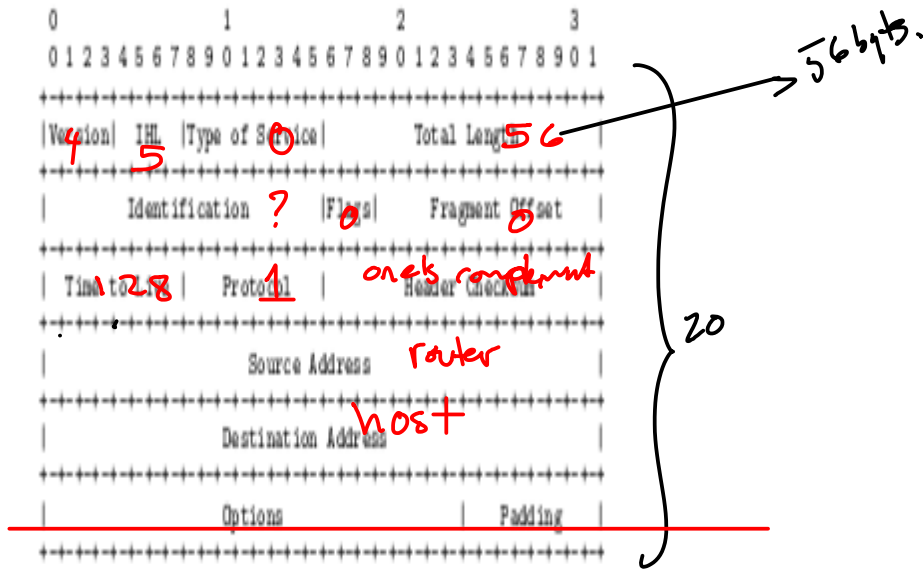
# Lecture 14 - ICMP

**Exercise 1:** Write the contents of an ICMP Destination Unreachable packet with code 0 (Network Unreachable) including the IP header. Specify the values of any fields whose value are not defined by this question.

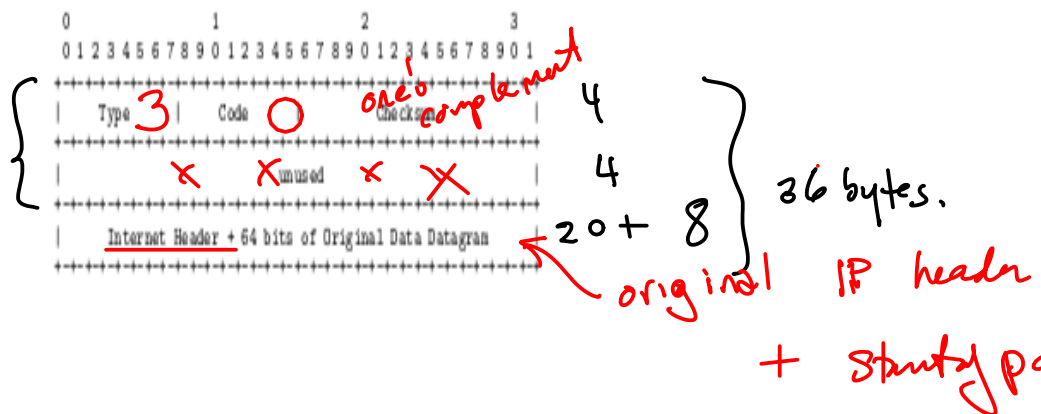
*type = dest. unreachable  
code = 0*



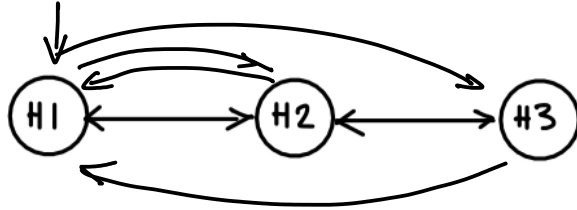
IP header



ICMP header



**Exercise 2:** The host H1 in the network shown in the diagram below issues the command 'traceroute H3'. Draw a table showing the ICMP messages transmitted and received by H1. Include five columns for source address, destination address, ICMP type, ICMP code and TTL value. Assume a single ping is used to discover each hop.



SRC	DEST	ICMP TYPE CODE	TTL
H1	H3	echo req	1
H2	H1	TTL exceeded	large (64, 128, 255)
H1	H3	echo req	2
H3	H1	echo response	large ←