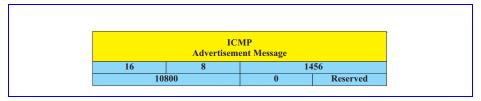# CHAPTER 24

Mobile IP

1. If a mobile host acts as a foreign agent, registration is still required. The mobile host/foreign agent still needs to identify itself to the home agent.

3. See Figure 24.1.

Figure 24.1 *Exercise 3*

ICMP Advertisement Message			
16	8	1456	
10800		0	Reserved

5. An ICMP router solicitation message can also be used for agent solicitation by a mobile host that has moved to a new network. No extra fields are needed because the agent is looking for information. The agent's own address is already included in the message.

7. See Figure 24.2. The protocol field is set to 1 to indicate ICMP.

9. See Figure 24.3.
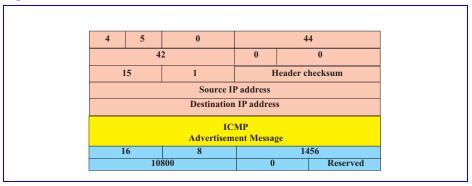
11. See Figure 24.4.

Figure 24.2 *Exercise 7*

4	5	0	44	
	42		0	0
15		1	Header checksum	
Source IP address				
Destination IP address				
ICMP Advertisement Message				
16		8	1456	
10800			0	Reserved

Figure 24.3 *Exercise 9*

4	5	0	length	
	42		0	0
15		Protocol	Header checksum	
200.4.7.14				
130.45.6.7				
Data				

Figure 24.4 *Exercise 11*

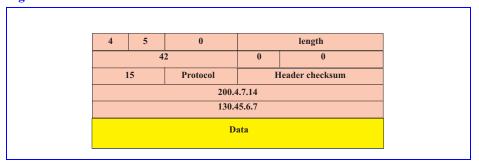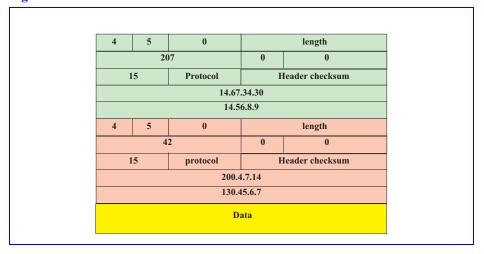| 4	5	0	length	
	207		0	0
15		Protocol	Header checksum	
14.67.34.30				
14.56.8.9				
4	5	0	length	
	42		0	0
15		protocol	Header checksum	
200.4.7.14				
130.45.6.7				
Data				

13. Triangle routing is the type of inefficiency. The packet travels to an extra network before it reaches the destination.