Chapter 18 Problems

18.5)

4480 octets / 1480 = 4 fragments

Frame 1	***Frame 2***	***Frame 3***	***Frame 4***
TL: 1500	TL: 1500	TL: 1500	TL: 40
MF: 1	MF: 1	MF: 1	MF: 0
FO: 0	FO: 185	FO: 370	FO: 555

18.8)

1500 + 160 = 1660
1660 / 640 = 3 fragments
2 * 800 + 160 + ((1660 – (2 * 640)) = 380) = 2140 bits at destination.

18.11)

IPv4 Fields	***IPv6 Equivalents***
Version: 4	Version: 6
IHL	Fixed: 40 octets, Next Header
TOS	Traffic Class
Total Length	Payload Length
Identification	Flow Label
Flags	Fragment Header
Fragment Offset	Fragment Header
TTL	Hop Limit
Protocol	Next Header
Header Checksum	?
Source Address	Source Address
Dest Address	Dest Address
Options + Padding	Optional Headers