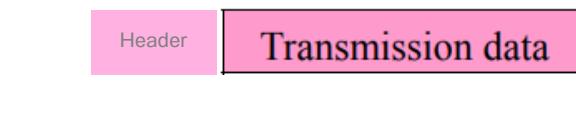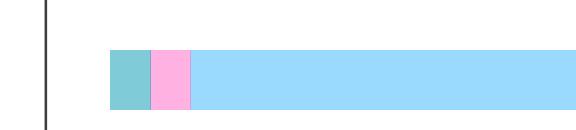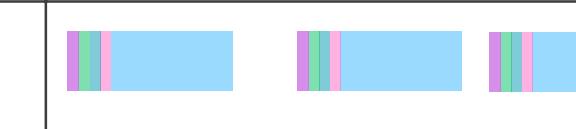| OSI	Tasks	Header Integration	Addressing	Responsible For	PDU (Protocol Data Unit)	TCP / IP	Header Integration Details	Protocols
Application	Name System — DNS; Host Config — BOOTP, DHCP; Email — SMTP, POP, IMAP; File Transfer — FTP, TFTP; Web — HTTP, HTTPS		Specific Address	Providing service to the users	Data	Application	Header · Transmission data	DNS, BOOTP, DHCP, SMTP, POP, IMAP, FTP, TFTP, HTTP, HTTPS, MIME, SNMP, SOAP
Presentation	Translation; Compression; Encryption							
Session	Session Management; Authentication; Authorization; Synchronization							
Transport	Connection Control; Flow and Error Control; Segmentation and Reassembly; Multiplexing		Port Address (16 bit)	Identification of the application/ process (via Port number)	Segment	Transport	TCP header: Source Port number, Destination Port number, Sequence number · Transmission data	TCP, UDP, SCTP
Network	Providing Communication Channel; Routing		Logical address (IP, 32 bit)	Delivery of packets from source host to destination host	Packet	Internet	IP header: Protocol number, Source IP address, Destination IP address · TCP header · Transmission data	IP, RIP, ICMP
Data Link	Media Access Control		Physical Address (MAC, 48 bit)	Moving frames from one hop to next	Frame	Network Access	Ethernet header: Source MAC address, Destination MAC address · IP header · TCP header · Transmission data	PPP, PPPoE
Physical	Providing Transmission in Communication Line				Bits			