Ch 1: 1.1 - 1.15

1.1) My macbook pro:

I/O ports @ 40GB/s

256 GB Hard Drive SSD
16 GB RAM
Processor: i5, 7th generation, 4 cores @ 1.4 GHz

I looked at "System information"

1.2) Easy for computer to use bits as switches.
ON or OFF.

1.3)

Bit	# of vals
1	2
3	8
6	64
8	256
10	1024
16	65,536

1.4) 7 bits, $2^7 = 128$.

1.5) 8 bits or 1 byte, as $2^8 = 256$

1.6)

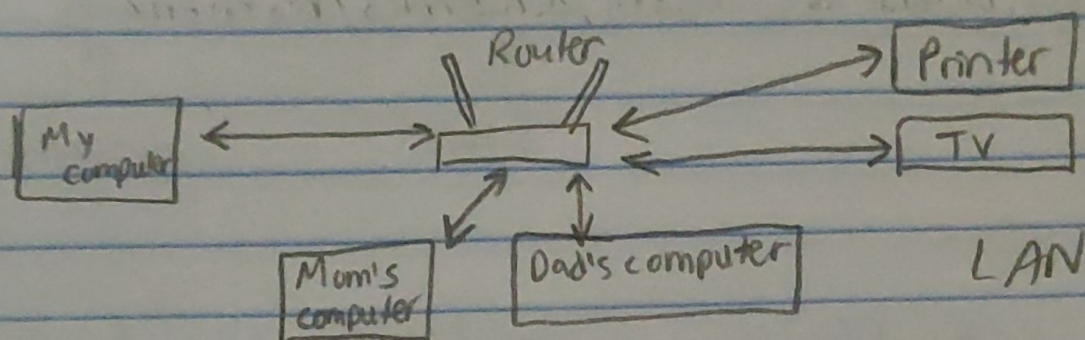|	Bytes		Bits
12 KB	12,000		96,000
5 MB	5,000,000		40,000,000
3 GB	3,000,000,000		24,000,000,000

1.7)

RAM	ROM
Temporary, stores files for open apps	Read-only, instructions for computer

1.8) A disk is storage, not memory. It is permanent, can be stored for long periods of time.

1.9) My computer is connected to my wi-fi.

LAN

1.10) LAN: Local-area network, small group of devices connected
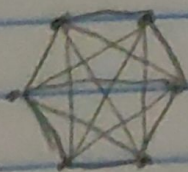
WAN: Wide-area network, connects 2 or more LANs.

1.11)

5	10
6	15
7	21

$\dfrac{n(n-1)}{2}$ is the formula

8) 28 lines
9) 36 lines
10) 45 lines

1.12)

Internet	vs	World Wide Web
Multiple networks connected, like WAN.		System that allows connecting to documents on internet.

1.13) https://phs.piscatawayschools.org

↑ hyper text transfer protocol SECURE

↑ subdomain

↑ domain

↑ organization

https://phs.piscatawayschools.org/academics/mathematics_department

↑ folder

↑ document name

/our_school/staff_websites/Mathematics/sain__bnider

directory

↑ document name

1.14) Found using google

mlb.com/phillies

wineinstitute.org

new.mta.info   for NYC
seoulmetro.co.kr   for Seoul

cheapcarribean.com

9/21/2021

1.15) Single-line: //continues for that line
Multi-line: /* continues till closed*/