How does the Internet Work?

### The answer to all the questions can be found in the listed videos. I suggest reading through all the questions first so that you know what answers you’re looking for, then watching videos that sound like they will answer the question you’re trying to answer. **Answers must be in complete sentences to receive credit.**

Internet Infrastructure as Fast as Possible - <https://youtu.be/n71TUnTNdw8>

DNS as Fast as Possible - <https://youtu.be/Rck3BALhI5c>

Internet vs Web as Fast as Possible - <https://youtu.be/laepk9KrAZY>

Internet Protocol - IPv4 vs IPv6 as Fast as Possible - <https://youtu.be/aor29pGhlFE>

Routers vs. Switches vs. Access Points - And More - <https://youtu.be/Vc16CCAAz7Q>

What is TCP/IP? - <https://youtu.be/PpsEaqJV_A0>

HTML5 as Fast as Possible - <https://youtu.be/IsXEVQRaTX8>

Bits vs Bytes as Fast as Possible - <https://youtu.be/Dnd28lQHquU>

How Do URLs Work? - <https://youtu.be/OvF_pnJ6zrY>

# Questions:

1. What is the difference between bits and bytes and what are they used for?
2. Why is HTML5 the new standard?
3. What is the difference between the Internet and the Web?
4. What is the role of an ISP?
5. What is a modem?
6. What is a browser?
7. What is the difference between guided and unguided media?
8. Summarize how the internet was developed.
9. What is a web server and what purpose does it serve?
10. What is a router and what purpose does it serve?
11. What are packets and what purpose do they serve?
12. What are IP addresses and what purpose do they serve?
13. What is Intranet and what purpose does it serve?
14. What is bandwidth?
15. What is a firewall?
16. What is the “backbone” (Internet backbone service providers) and what purpose does it serve?
17. What is the purpose of a domain name?
18. Match the parts of the URL to its name:
19. What is a static IP address?
20. What is a dynamic IP address?
21. What is the difference between IPv4 and IPv6?
22. What is the function of a DNS?
23. What does HTTP stand for and how is it used?
24. What does HTTPS stand for and how is it used?
25. What does FTP stand for and how is it used?
26. What does SMTP stand for and how is it used?
27. What does TCP/IP stand for and how is it used?