HOW THE INTERNET WORKS · PART 9 OF 9 · AGES 11–16

Internet Quiz

Ten questions on the whole series. Answer them all, then turn the page round to check.

1. Which phrase best describes the internet?

- A. One giant computer owned by a company
- B. A network of networks
- C. Another name for the World Wide Web
- D. A system of satellites

2. What does DNS do?

- A. Encrypts data so nobody can read it
- B. Translates domain names into IP addresses
- C. Splits files into packets
- D. Stores web pages

3. When you open a website, which order do these steps happen in?

- A. HTTP request, DNS lookup, TCP handshake
- B. DNS lookup, TCP handshake, HTTP request
- C. TCP handshake, HTTP request, DNS lookup
- D. HTTP request, TCP handshake, DNS lookup

4. Which part of a packet does a router read to decide where to send it next?

- A. The payload
- B. The destination IP address
- C. The sequence number
- D. The source port

5. What does latency measure?

- A. How much data arrives each second
- B. How long data takes to travel
- C. How many devices share a router
- D. How big each packet is

6. Which of these uses the internet but is not part of the World Wide Web?

- A. A page on a news website
- B. Email sent between mail servers
- C. A URL
- D. HTML

7. Roughly what share of international data travels through undersea cables?

- A. About 25%
- B. About 50%
- C. About 75%
- D. Over 99%

8. In which year did ARPANET switch to TCP/IP, joining networks into one internet?

- A. 1969
- B. 1983
- C. 1991
- D. 1995

9. IPv4 addresses are 32 bits long. How many possible IPv4 addresses are there?

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10. True or false: a padlock in the address bar proves a website is honest. Explain your answer.

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ANSWERS

1. B: A network of networks
2. B: Translates domain names into IP addresses
3. B: DNS lookup, TCP handshake, HTTP request
4. B: The destination IP address
5. B: How long data takes to travel (how much per second is bandwidth)
6. B: Email sent between mail servers
7. D: Over 99% (satellites carry only a small share)
8. B: 1983 (on 1 January)
9. 2^{32} = 4,294,967,296, about 4.3 billion: fewer than the number of people on Earth.
10. False. It shows the connection is encrypted (HTTPS). Phishing sites can use HTTPS too, so check the web address.

SERIES COMPLETE

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