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?**

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

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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