

# Cisco CCNA (200-301) Quick Summary

Fast 3-5 minute refresh for the ideas and traps that show up over and over on CCNA.

<b>Best for</b> Ultra-fast memory refresh	<b>Focus</b> Definitions, shortcuts, and common mistakes	<b>Use with</b> Use with cheat sheet for deeper review
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## 1. Fast memory refresh

<b>Layer 2 vs Layer 3</b>	Switching is local forwarding by MAC; routing is path selection between networks.
<b>Subnetting</b>	Find network, usable range, and broadcast quickly without calculator dependency.
<b>VLAN + trunk</b>	Most access-layer questions mix segmentation with trunk transport.
<b>OSPF</b>	Single-area logic, neighbor state, and route choice matter more than obscure tuning.

## 2. Common exam traps

<b>Access vs trunk port</b>	One VLAN untagged versus many VLANs tagged.
<b>443 vs 8443</b>	443 is standard HTTPS; 8443 is often alternate, not default.
<b>Administrative distance</b>	Lower wins when routes to the same prefix compete.
<b>Native VLAN</b>	Untagged on a trunk; mismatches create confusing behavior.

## 3. Security shortcuts

<b>SSH</b>	Secure remote management default.
<b>ACL order</b>	Top-down processing; first match wins.
<b>Port security</b>	Great for limiting MAC addresses on access ports.
<b>WPA3</b>	Preferred when supported; know enterprise auth context.

## 4. Ops shortcuts

<b>show ip interface brief</b>	Fastest triage command on Cisco devices.
<b>show vlan brief</b>	Quick VLAN membership check.
<b>show ip route</b>	Core routing verification command.
<b>show running-config</b>	Always confirm intended vs actual config.