

Week 1 Lesson 5 Task 5 Solutions

1 Like count → AP

why:

- Temporary inconsistency is acceptable
- Showing something is better than blocking users
- Likes can be reconciled later

Availability > strict correctness

2 Bank Balance → CP

why:

- Incorrect balance = catastrophic
- Cannot double spend
- Better to block transaction than be wrong

Correctness > availability

3 Online Shopping cart → CP (mostly)

why:

- Inventory must not go negative
- Over-selling is dangerous
- Checkout must be consistent

- Browsing cart → AP is okay
- Checkout / payment → CP required

4 Messaging app → AP

- Messages must not be lost
- Slight delay is acceptable
- System must work offline / unstable networks

→ High availability with eventual consistency.