# Quiz 2

1. Problems

•Total Number of Clients: 8

• Number of communication rounds: 10

• Active Clients in each communication round: 4

• Number of data samples stored at each client: 2048

• Local mini-batch size per client: 16

• Number of local steps(updates) per client: 5

Assuming there are no duplicate samples across clients and each sample is picked only once for training, how many samples are used after the training process?

1. Solution

**Step 1:** mini-batch size×local steps=16×5=80 samples per client per round

**Step 2:** 4×80=320 samples per round

**Step 3:** 10×320=3200 samples in total

1. Final Answer:

**3200 samples used after the training process**