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**QUESTION 1**

A customer has many consumer applications that process messages from a Kafka topic. Each consumer application can only process 50 MB/s. Your customer wants to achieve a target throughput of 1 GB/s. What is the minimum number of partitions will you suggest to the customer for that particular topic?

- A. 10
- B. 20
- C. 1
- D. 50

Correct Answer: B

each consumer can process only 50 MB/s, so we need at least 20 consumers consuming one partition so that $50 * 20 = 1000$ MB target is achieved.

QUESTION 2

We have a store selling shoes. What dataset is a great candidate to be modeled as a KTable in Kafka Streams?

- A. Money made until now
- B. The transaction stream
- C. Items returned
- D. Inventory contents right now

Correct Answer: C

QUESTION 3

If you enable an SSL endpoint in Kafka, what feature of Kafka will be lost?

- A. Cross-cluster mirroring
- B. Support for Avro format
- C. Zero copy
- D. Exactly-once delivery

Correct Answer: C

With SSL, messages will need to be encrypted and decrypted, by being first loaded into the JVM, so you lose the zero copy optimization. See more information here <https://twitter.com/ijuma/status/1161303431501324293?s=09>



QUESTION 4

Once sent to a topic, a message can be modified

A. No

B. Yes

Correct Answer: A

Kafka logs are append-only and the data is immutable

QUESTION 5

When is the onCompletion() method called?

```
private class ProducerCallback implements Callback {
```

```
@Override
```

```
public void onCompletion(RecordMetadata recordMetadata, Exception e) {
```

```
if (e != null) {
```

```
e.printStackTrace();
```

```
}
```

```
}
```

```
}
```

```
ProducerRecord record =
```

```
new ProducerRecord("topic1", "key1", "value1");
```

```
producer.send(record, new ProducerCallback());
```

A. When the message is partitioned and batched successfully

B. When message is serialized successfully

C. When the broker response is received

D. When send() method is called

Correct Answer: C

Callback is invoked when a broker response is received.