Comparison to Amazon S3:

Given Datasize(TB): 311TB (1TB = 1024GB)
Given Datasize(GB): 318464GB

Store data

- **GCS:**
  Standard Storage cost per month for GCS is: $0.026 per GB
  Therefore total cost for storing 311TB of data is: 0.026 * 318464 -> $8280.064
- **Amazon S3:**
  Total cost for storing 311TB of data as calculated by the calculator is-> $10187.57

Transfer data

- **GCS:**
  Data Transfer to Cloud services of network egress is: $0.12/per GB:
  Therefore total cost for transferring 311TB of data is -> $38215.68
- **Amazon S3:**
  Total cost for data transfer in to Amazon S3: calculated by the calculator is -> $0.000 per GB

Retrieve data

- **GCS:**
  Total PUT/POST, GET bucket (list), GET service requests at $0.01/per 1,000 operations = number of operations * 0.01
  (411,000,000 * 0.01) / 10.000 = $411.00
- **Amazon S3:**
  Data Transfer OUT From Amazon S3 as estimated by calculator for 622TB: $39085.15
  Therefore total cost for retrieving 622TB of data is -> $39085.15

Comparison:

Therefore Total Cost Estimation for running such a distributed storage system on GCS is: $8280.064 + $38215.68 + $411.00 = $46906.744
Therefore Total Cost Estimation for running such a distributed storage system on Amazon S3 is: $10187.57+ $0.000 + $39085.15 = 49272.72

Hence by comparing above two we can say that: Google Cloud Storage is more cost effective than Amazon.

Reference links:

http://calculator.s3.amazonaws.com/index.html
https://cloud.google.com/storage/pricing#pricing
https://aws.amazon.com/s3/pricing/