A2: Converting Storage Capacity Units

Directions: Convert the following storage capacity units using the conversion factors provided. Show your work.

1. 250 kilobytes (KB) = \_\_\_\_\_\_\_ megabytes (MB)

2. 3 gigabytes (GB) = \_\_\_\_\_\_\_ terabytes (TB)

3. 500 megabytes (MB) = \_\_\_\_\_\_\_ kilobytes (KB)

4. 2 terabytes (TB) = \_\_\_\_\_\_\_ gigabytes (GB)

5. 1,000 kilobytes (KB) = \_\_\_\_\_\_\_ megabytes (MB)

6. 5 gigabytes (GB) = \_\_\_\_\_\_\_ terabytes (TB)

7. 750 megabytes (MB) = \_\_\_\_\_\_\_ kilobytes (KB)

8. 4 terabytes (TB) = \_\_\_\_\_\_\_ gigabytes (GB)

Conversion Factors:

1 kilobyte (KB) = 0.001 megabytes (MB)

1 megabyte (MB) = 1,000 kilobytes (KB)

1 gigabyte (GB) = 1,000 megabytes (MB)

1 terabyte (TB) = 1,000 gigabytes (GB)

# Activity: Storage Capacity Comparison

Directions: Compare the storage capacity of the following storage devices by writing the larger capacity in the blank.

1. USB drive: 32 gigabytes (GB) or 500 megabytes (MB)?

2. Hard drive: 2 terabytes (TB) or 5 gigabytes (GB)?

3. DVD: 4.7 gigabytes (GB) or 1,000 kilobytes (KB)?

4. Cloud storage: 500 gigabytes (GB) or 1 terabyte (TB)?

5. Smartphone: 64 gigabytes (GB) or 16 megabytes (MB)?