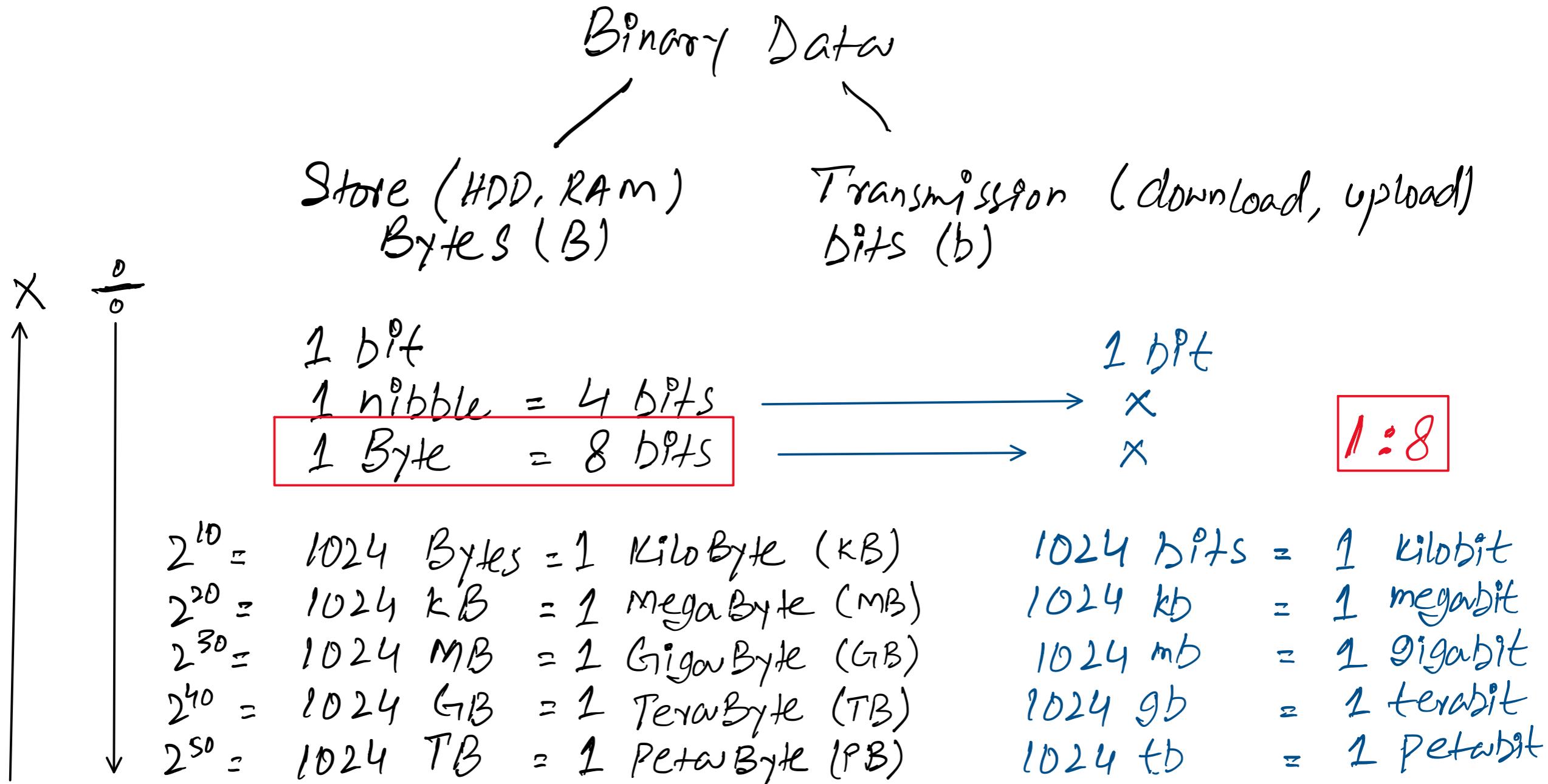


Memory Sizing & Measurements - OL



File Size : 1 MB
 Speed per Sec. : 1 mb
 Time : ?

$$\text{Time} = \frac{\text{File Size}}{\text{Speed}}$$

$$\frac{1 \text{ MB}}{1 \text{ mb}} = \frac{1 \times 8 \text{ mb}}{1 \text{ mb}} = \frac{8}{1} = 8 \text{ seconds.}$$

File Size : 10 MB
 Speed per Sec : 2 mb

$$\frac{10 \text{ MB}}{2 \text{ mb}} = \frac{10 \times 8 \text{ mb}}{2 \text{ mb}} = \frac{80 \text{ mb}}{2 \text{ mb}} = 40 \text{ sec.}$$

File Size : 2 GB
 Speed per Sec : 20 mb

$$\frac{2 \text{ GB}}{20 \text{ mb}} = \frac{2 \times 1024 \text{ MB}}{20 \text{ mb}} = \frac{2048 \text{ MB}}{20 \text{ mb}} =$$

$$= \frac{16384 \text{ mb}}{20 \text{ mb}} = 819.2 \text{ sec} = 13.65 \text{ min.}$$

File Size : 2 GB
 Speed : 512 kbps
 Time to upload : ?

$$\frac{2 \text{ GB}}{512 \text{ kb}} = \frac{2 \times 1024 \text{ MB}}{512 \text{ kb}} = \frac{2048 \times 1024 \text{ KB}}{512 \text{ kb}}$$

$$\Rightarrow \frac{2097152 \text{ KB}}{512 \text{ kb}} = \frac{2097152 \times 8}{512 \text{ kb}} = \frac{16777216 \text{ kb}}{512 \text{ kb}}$$

$$\Rightarrow 32768 \text{ sec} = 546.13 \text{ min.}$$

$$\frac{2 \text{ GB}}{512 \text{ kb}} = \frac{2 \times 1024 \text{ MB}}{512 / 1024 \text{ mb}} = \frac{2048 \text{ MB}}{0.5 \text{ mb}} =$$

$$\Rightarrow \frac{2048 \times 8 \text{ mb}}{0.5 \text{ mb}} = \frac{16384 \text{ mb}}{0.5 \text{ mb}} = 32768 \text{ sec} = 546.13 \text{ min.}$$