To calculate total capacity of a track:

Total Track Size= No. of Block Per Track * (Block Size+ InterBlock Gap Size)

To calculate useful capacity:

Useful Capacity of a track= Block Size * Number of Blocks per track

Number of cylinders = number of tracks

To calculate Total capacity of cylinder:

Total Cylinder Capacity= Disk Pack*Side of Disk* No. of tracks per block*(Blocksize+ Interblock Size)

To calculate total usefull capcacity of cylinder:

Total Cylinder Capacity= Disk Pack*Side of Disk* No. of tracks per block*(Blocksize)

the total capacity

Total Capacity of a Disk Pack = Disk Pack*Side of Disk* No. of tracks per block*(Blocksize+ Interblock Size)

useful capacity of a disk pack:

Useful Capacity of a Disk Pack = Disk Pack*Side of Disk* No. of tracks per block*(Blocksize)

Transfer rate ?

Transfer rate tr= (total track size in bytes)/(time for one disk revolution in msec)

Block Transfer Time btt ?

Block Transfer Time btt = Block Size in Bytes/ Transfer Rate (tr)

Average rotational Delay ?

Average rotational delay rd is time for 1/2 revolution