From last time

A file system uses inodes which contain 8 block-numbers.
These are for the first 7 blocks of the file and an indirect block,
which just contains block-numbers for the remaining blocks in
the file.
A block-number occupies 2 bytes. Each block is 4k bytes.

What is the maximum size of a file in bytes?
block = 4kB = 2k block-numbers
file = 7 + 2k blocks = 4k * (7 + 2k) bytes = 8MB + 28kB

What is the maximum total size of directories and files in a
single disk partition?
2^{16} = 64k different block-numbers
maximum = 64k blocks = 64k * 4k bytes = 256MB