CS3600

Worksheet 08

1. The size of page offset(w) determines _____ and p determines _____.
    a. Number of pages in logical address
    b. Number of words in a page.
    c. Number of frames in the physical memory.

	p	w
0	0	0
	0	1
1	1	0
	1	1

2. An address consists of a 6-bit page number and a 2-bit offset.
    a. Number of pages= _____
    b. Page size =_____
    c. The address (2, 1) denotes the binary address _____.
3. Consider a logical address space of 64 pages of 1,024 words each, mapped onto a physical memory of 32 frames.
    a. How many bits are there in the logical address?
    b. How many bits are there in the physical address?

4. With a page size of 512 words and a program size of 1550 words, _____ words are lost to internal fragmentation.

5. A page table (PT) has the following contents.

Page Number	Frame number
0	**5**
1	**6**
2	
3	**9**
4	**12**

Page size = 512 words. Given the logical address (LA) = 1780, determine the following: Page number p , Offset w and Frame number f.

6. A page table (PT) has the following contents.

Page Number	Frame number
0	**6**
1	
2	**10**
3	**13**
4	**7**
	….

Page size = 512 words. Given the logical address LA = 350, determine the following: Page number p , Offset w , Frame number f and physical address.