Problem 7.1

Problem 7.2
$2^{24}/2^{16} = 2^8$. The pointer would be 8 bits.

Problem 7.3
The probability that a segment is followed by a hole is .5. This means that the average number of holes must be half that of the number of segments.

Problem 7.5

pro The worst fit algorithm uses the largest chunks of memory first
con The largest chunks are gone if there is a particularly large process that needs to be placed

The average length of time for worst-fit search is n, where is the number of memory blocks.

Problem 7.6

a 8 Megabytes
b 8 Megabytes
c Algorithms:

Best-Fit	29M
First-Fit	1M
Next-Fit	10M
Worst-Fit	1M

Problem 7.8
a 011011110100
b 011111100000

Problem 7.11
The preferable approach is to store the results in the instruction register. This will save processor cycles and memory space.

Problem 7.14

a $198 + 660 = 858$
b $156 + 222 = 378$
c $530 + 1752 = 2282$
d $444 + 996 = 1440$
e $222 + 660 = 882$