## Memory System Design

In the following sections, your will design three different memory systems using four memory chips. The chips used are **four** million address by **four** bit words.

Part A Consider a four million address by sixteen bit word memory system.

**Part D** Now design each system below. Be sure you label the memory system inputs, Addr, R/W, and Mem Sel, and the system's outputs D0, D1, D2, etc. Also label bus widths, and inputs and outputs of any required decoders. **Put a star on the chips containing memory location 0**.

4 million add	lress
16 bit wor	ds
Addr D0	
D1	
— R/W D2	
— CS D3	<u> </u>
Addr D0	
– R/W D2	
C3 D3	
Addr D0	
D1	
— R/W D2	
Addr D0	
D1	
– R/W D2	

