SIMM Memory Systems

Today, most computer use SIMMs (single in-line memory modules) for main memory. SIMMS typically offer eight bit wide words (byte wide) with different number of addresses. The most common SIMMs in use today are 4 Mbytes (four million address by eight bit words).

Part A Suppose these four MByte SIMMS are used to build a 16 million address memory system with 32 bit words. Answer the following questions about this memory system:

| How many | address lines does each SIMM require? |
|-----------|--|
| Ü | • |
| How many | address lines does the entire memory system require? |
| v | |
| How many | SIMMS are require for the entire memory system? |
| J | |
| What kind | of address decoder is required? to |

