Memory Systems

Part A
How many address lines does the memory system require? 24
How many data lines does the memory system require? 8
How many address lines does the DRAM memory chip require? 20
How many memory chips are required for the system? 16 x 2 = 32
What kind of address decoder is required? 4 to 16

Part B
How many address lines does the DRAM memory chip require? 22
How many memory chips are required for the system? 4 x 2 = 8
What kind of address decoder is required? 2 to 4

Part C
How many address lines does the DRAM memory chip require? 14
How many memory chips are required for the system? 1024 x 8 = 8196
What kind of address decoder is required? 10 to 1024