## **Ethernet LANs**

**Exercise 1**: How many possible OUI's are there? How many devices can be manufactured for each OUI?

 $6 \text{ byts} < 3 \text{ duice} = 24 \text{ bits} 2^{29} \approx |6 \text{ million}$ 

**Exercise 2**: Classify each of a hub, learning bridge and switch according to the following: can operate in full-duplex mode, can have independent PHY rates, collisions can happen, can receive from multiple ports simultaneously.

P

	HUB	BRIDGE/SWITCH
fill duplex	Ν	Y
inderpendent DHY Vots	$\mathbb{N}$	У У
collisions	$\searrow$	N
(on there nultiple conts, vectore	Ņ	$\gamma$