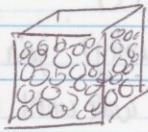
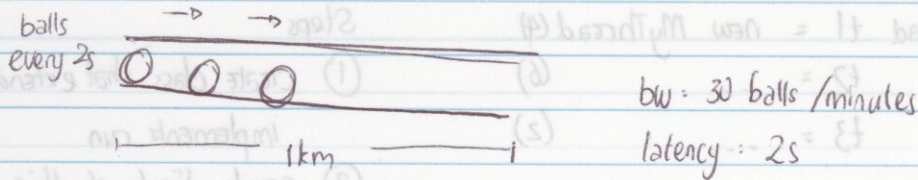


latency vs bandwidth

↓
how long to finish in steady state, how many
 can be finished in a unit time



10 minutes

latency = 10 minutes

$$\text{bandwidth} = \frac{1000 \text{ balls}}{10 \text{ mins}} = 100 \text{ balls / min}$$

↓
doesn't mean 100 balls after the first minute

#bytes jet can carry

speed of jet $1000 \text{ km/h} = \frac{10^6 \text{ m}}{3600 \text{ sec}} = 278 \text{ m/s}$

weight 200 tons + 100 tons of cargo

length of aeroplane = 50m

↓
assume 2×10^5 HD

$$\hookrightarrow 2 \times 10^5 \times 10^{12} \text{ bytes}$$

$$\text{bandwidth} = \frac{2 \times 10^{17} \times 278}{50} = 1.11 \times 10^{18} \text{ bytes/s}$$