Example 2: How many packets are needed

❑ **Example 2**: In a DoS attack using ICMP Echo Request (ping) packets of **1000** bytes in size are sent to flood a target organization.

❑ The numbers of packets sent by the attacker to launch a successful DoS attack will depend on speed of the link.

1. On a 1.5 Megabit per second (Mbps) link
   ❑ 1500000 / (1000 * 8) = 187 packets per second.

2. On a 2 Mbps link
   ❑ 2000000 /(1000 * 8) = 250 packets per second.

3. On a 10 Mbps link
   ❑ 10000000 / (1000 * 8) = 1250 packets per second

4. On a 100 Mbps link
   ❑ 100000000 / (1000 * 8) = **12500** packets per second

Solution ① $\dfrac{1.5 \times 10^{6}}{1000 \times 8} = 187$

② $\dfrac{2 \times 10^{6}}{1000 \times 8} = 250$

③ $\dfrac{10 \times 10^{6}}{1000 \times 8} = 1250$

④ $\dfrac{100 \times 10^{6}}{1000 \times 8} = 12500$