Example 3: packets

❑ **Example 3**: In a DoS attack using ICMP Echo Request (ping) packets of **50000** 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 / (50000 * 8) = 3.75 packets per second.
2. On a 2 Mbps link
   - ❑ 2000000 /(50000 * 8) = 5 packets per second.
3. On a 10 Mbps link
   - ❑ 10000000 / (50000 * 8) = 25 packets per second
4. On a 100 Mbps link
   - ❑ 100000000 / (50000 * 8) = **250** packets per second

Solution ①

$$\frac{1.5 \times 10^6}{50000 \times 8} = 3.75$$

②

$$\frac{2 \times 10^6}{50000 \times 8} = 5$$

③

$$\frac{10 \times 10^6}{50000 \times 8} = 25$$

④

$$\frac{100 \times 10^6}{50000 \times 8} = 250$$