Quiz

VM uses 16 BIT

2^{16}

Page size $2^9 = 512$ bytes

offset = 9 bit

VPN = 16 - 9 = 7 bit

$$2^7 \times 2^2 =$$

↑ VPN   4B
Table entry

$$\boxed{2^9 = 512B \\ \text{Total PT} \\ \text{Size}}$$

VPN   OFFSET

00000 1|0000   10 1110

Physical $2^3 \times 2^9 = 2^{12} = 4kB$

0000010 = 2

2 = 110   so =

Presentbit = 1 ↗

PFN   OFFSET

$$\boxed{110 \mid 000\,10\,1110 \quad \text{IN PHYSICAL MEM}}$$

PT1 = 2^4 = 4 bit   = 16 entries × 4B

PT2 = 2^3 = 3 bit   = 8 entries × 3 = 24 × 4B

$(2^4 + 2^3 \times 3)$ 4B = 16 + 8×3 = 16+24 = 40 × 4 = 160B