

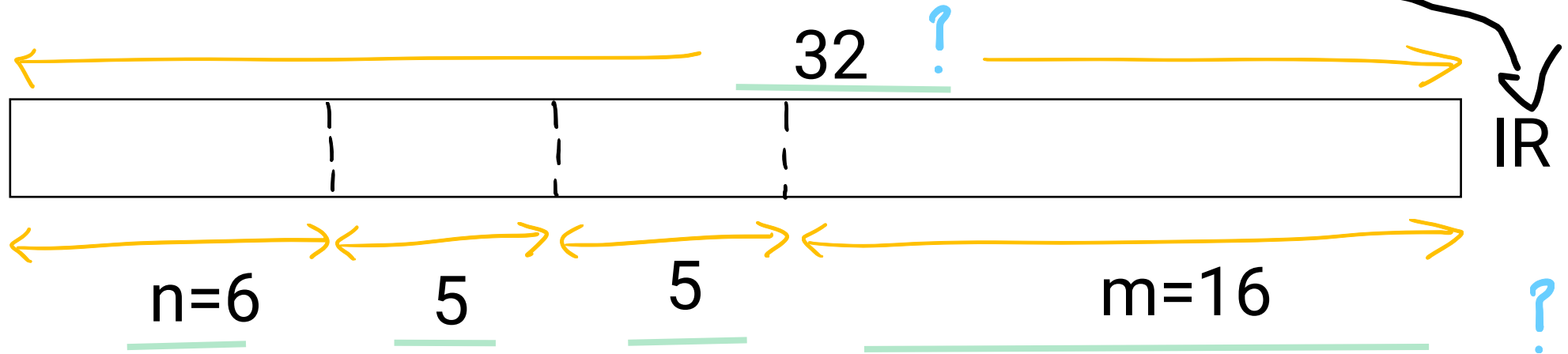
SU16 QA [144] - [156]

①

[144]

addi \$t0 \$t1 24
32 bit

? lengths
widths



[145] Review [146] Review [148, 149] Review

$data = !W[264]$

address = $!R + K_d$

R $\vec{0}1000000$

base address

$K_d = 200$

offset

address = 264

[148/149]

②

∅

⋮

3000

3004

3008

⋮

3044

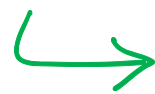
MM

We wish to add up all numbers at words 3004 to 3044 inclusive.

Base address 3004

The offsets (in increasing order)

CARE!



4 , 8 , 12 , 16 , 20

...

32, 36 , 40

CARE!



REVIEW
[151][152]

[153] Given addi R S δ_d illustrate ^③
 the execution if $!S =$ $(\in \text{Bin}^{32})$

00000000.00000000.00000000.00100000
 ← 32 digits →

SEMANTICS $R_8 = !S + \text{sx}(\vec{b})$ $\vec{b}_S = \delta_d$
 $\in \text{Bin}^{32}$ $\in \text{Bin}^{16}$

$\delta_d =$ 0.01000 $\in \text{Bin}^{16}$

$\text{sx}(\vec{b}) =$ 0.0.0.0100 $\in \text{Bin}^{32}$

00 $!S$ is
+ $\text{sx}(\vec{b})$

0.01000000
0.0100

0.0100100

$\in \text{Bin}^{32}$

You try
 with -8