

MUL (12 erest 12)

$$AX = \underline{\underline{AL}}$$

* Rep. Bellenic (8-bit)

$$(DX AX) = AX * \underline{\text{Rep. Beh}} (16)$$

AX 0002

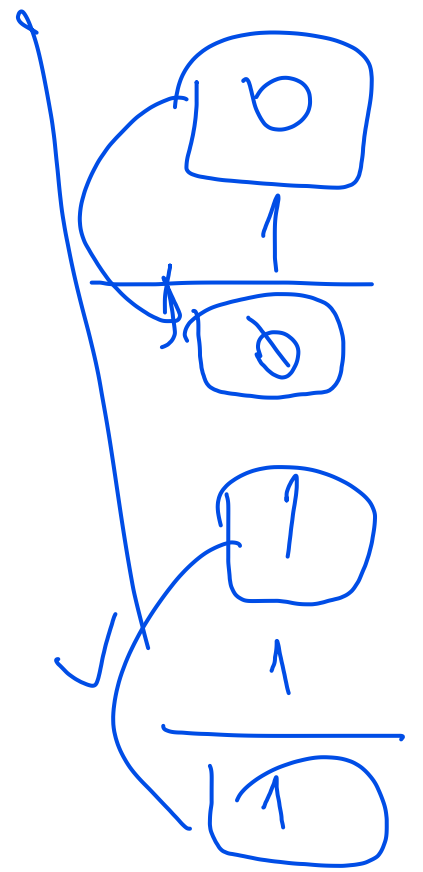
512 → 0200

DX AX

→ 0000 0200

0 1 1 1 1 1 1 1 (+127) positive

1 0 0 0 0 0 2 2 (-128)

[illegible]

32 \rightarrow

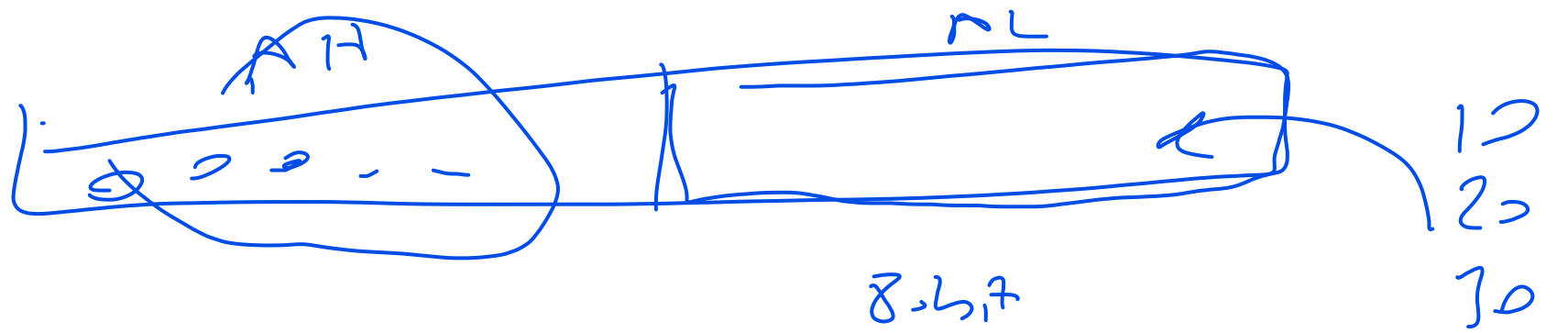
$$\begin{array}{cccccccc}
 \underline{0} & \underline{0} & \underline{1} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} \\
 \uparrow & \uparrow & 0 & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\
 \hline
 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0
 \end{array}$$

-32

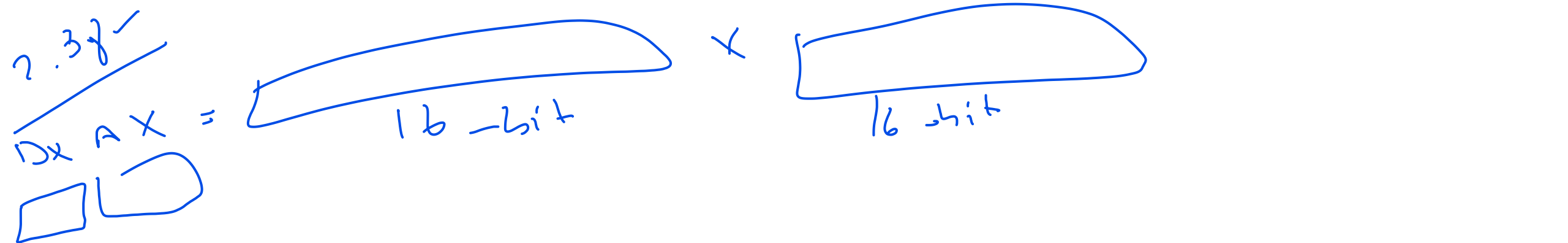
Ans

$$\begin{array}{cccccc}
 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 \\
 \hline
 1 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 \\
 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0
 \end{array}$$

$$\begin{array}{cc}
 \begin{array}{cc}
 \boxed{0} & 1 \\
 \hline
 \boxed{0} & \boxed{0}
 \end{array}
 &
 \begin{array}{cc}
 \text{Sub} \rightarrow \boxed{0} & \boxed{1} \\
 \boxed{1} & \boxed{1} \\
 \hline
 \boxed{0} & \boxed{1}
 \end{array}
 \end{array}$$



Ax



0 1 1 1 / 1 1 1 1

+ 127

1 0 0 0 0 0 0 0

- 128

0 1 1 1 1 1 1 1
1 0 0 0 0 0 0 0

1 1 1 1 1 1 1 1 / + 32767
0 0 0 0 0 0 0 0 - 32768

$$\begin{array}{r} 0001 \quad 1200 \\ \hline \text{DX} \quad \text{AX} \end{array}$$

$$\underline{0} \quad \underline{0} \quad \underline{1} \quad \underline{0} \quad \underline{0} \quad \underline{0} \quad \underline{0} \quad \underline{0} \quad 32$$

$$1 \quad 1 \quad 0 \quad 1 \quad 1 \quad 1 \quad 1 \quad 1 \quad +1$$

$$\boxed{1 \quad 1 \quad 1 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0} \quad -32$$

