

RA1911026010037

1) $(-14) \times (-5)$

$14 \rightarrow 01110 \downarrow 1's \text{ comp}$
 $10001 \downarrow 2's \text{ comp.}$
 $-14 \rightarrow 10010$

$+5 \rightarrow 00101 \downarrow 1's \text{ comp}$
 $11010 \downarrow 2's \text{ comp}$
 $-5 \rightarrow 11011$
 \downarrow
 Multiplier

recoding the multiplier

$11011 \text{ } \boxed{0}$

$0-1+10-1$

$\therefore (-14)$
 $\times -5$

\rightarrow
 $\begin{array}{r}
 10010 \\
 \times 0-1+10-1 \\
 \hline
 00000 \\
 00000 \\
 00000 \\
 01110 \\
 00000 \\
 00000 \\
 00000 \\
 00000 \\
 \hline
 0000010000110 \\
 \downarrow \quad \downarrow \quad \downarrow \\
 64 \quad 4 \quad 2
 \end{array}$

Sign bit
 \therefore no. is positive

$64 + 4 + 2 = 70$

$\therefore (-14) \times (-5) = 70.$