

Sumador completo

| m | A | B | Cin | S | Cout |
|---|---|---|-----|---|------|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 1 | 0 |
| 2 | 0 | 1 | 0 | 1 | 0 |
| 3 | 0 | 1 | 1 | 0 | 1 |
| 4 | 1 | 0 | 0 | 1 | 0 |
| 5 | 1 | 0 | 1 | 0 | 1 |
| 6 | 1 | 1 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 |

Para Suma

| AB | Cin | Cin |
|------------------|-----|-----|
| $\bar{A}\bar{B}$ | 0 | 1 |
| $\bar{A}B$ | 1 | 0 |
| $A\bar{B}$ | 0 | 1 |
| AB | 1 | 0 |

Esto tiene forma de XOR

$$(A \oplus B) + Cin = S$$

Para Cout

| AB | Cin | Cin |
|------------------|-----|-----|
| $\bar{A}\bar{B}$ | 0 | 0 |
| $\bar{A}B$ | 0 | 1 |
| $A\bar{B}$ | 1 | 1 |
| AB | 0 | 1 |

$$Cout = BCin + AB + CinA$$

$$Cin(A+B) + AB$$

