

Arithmetic Circuits

Design an arithmetic circuit that **multiplies** two bit numbers a_1a_0 and b_1b_0 . You will need two **half adders** for the addition operations. Connect the circuit and check its operation.

Required Equipment: You can use any gate you want to design the circuit: **7408** AND, **7432** OR, **7404** NOT, **7400** NAND, **7402** NOR and **7486** XOR gates. Use switches for the inputs and LEDs for the outputs.

