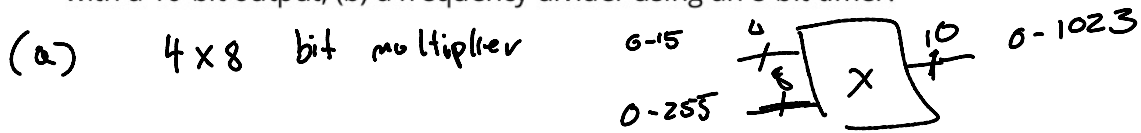


## Verification

**Exercise 1:** Give examples of appropriate test inputs for each of the above categories if you were testing: (a) an 4x8-bit multiplier with a 10-bit output, (b) a frequency divider using an 8-bit timer?



① typical: 1.2, 2.2  
10.5

② extreme val: 0.0, 15.0  
15.255, 0.255

③ 15.255 → 3825 ?

④ random() · random()

(b)

① 10  
② 1, 255  
③ 0 ?  
④

**Exercise 2:** What two tcl commands are executed by the following tcl script: set x [expr 1 + 1]?



**Exercise 3:** What's the difference between wait(x) y='1'; and @(x) y='1';?

wait(x) waits until x is true (non-zero)  
 @(x) // " an event on x (a change).

always

x ←= '1';

≡

always  
 x = #0 '1';

assign x = #5ns '1';