

**Exercise: Build a 5-bit Adder**

The diagram shows a 4-bit adder. Extend the design to build a 5-bit adder about one gate-width apart so that you have room to work.

Space your adder

Test these values and a few others. With eight inputs, there are  $2^8 = 256$  possible input combinations. Testing them all in class is not a good use of time.


