

*What's going on?*

What fact(s) do the computations below suggest to you? You might want to think about what different kinds of integers there are...

$$1 + 2 = 3$$

$$1 + 4 = 5$$

$$1 + 6 = 7$$

$$6 + 1 = 7$$

$$4 + 3 = 7$$

$$24 + 13 = 37$$

$$75 + 2002 = 2077$$

$$2004 + 77 = 2081$$

$$5,067,809 + 1,111,112 = 6,178,921$$

Come up with a mathematical assertion (your first “theorem”!) that makes a general statement incorporating the above examples.

Can you *prove* your statement?