

MATH 243 – Mathematical Structures
Quiz 6 – October 27, 2017

Your Name: _____

Directions

Do all work and answer all questions on this sheet. (Use the back if you need more space.)
There are 30 possible points, distributed as indicated.

A) (15) Construct the table for multiplication in $\mathbf{Z}/10\mathbf{Z}$.

B) (15) Does $[57]$ have a multiplicative inverse in $\mathbf{Z}/64\mathbf{Z}$? If so find it; if not, say why not.