Solutions to Exercise Set #1
CS 1213, Fall 2018

1. A = ~~51~~   ~~187~~   ~~51~~   ~~136~~   ~~51~~   ~~85~~   ~~51~~   ~~34~~   17
    B = ~~187~~   ~~51~~   ~~136~~   ~~51~~   ~~85~~   ~~51~~   ~~34~~   ~~17~~   17
    D = ~~136~~   ~~85~~   ~~34~~   ~~17~~   17

    The GCD is 17.

2. A = ~~42~~   ~~14~~   ~~28~~   14
    B = ~~14~~   ~~28~~   ~~14~~   14
    D = ~~28~~   14

    The GCD is 14.

3. A = ~~35~~   ~~27~~   ~~19~~   ~~11~~   3
    B =   8
    counter =   ~~0~~   ~~1~~   ~~2~~   ~~3~~   4

    The quotient is 4.

4. A = ~~42~~   ~~28~~   ~~14~~   0
    B = 14
    counter =   ~~0~~   ~~1~~   ~~2~~   3

    The quotient is 3.

5. A =   5
    B =   4
    counter =   ~~0~~   ~~1~~   ~~2~~   ~~3~~   4
    total =   ~~0~~   ~~5~~   ~~10~~   ~~15~~   20

    The product is 20.

6. A = 2
    B = 6
    counter = ~~0~~   ~~1~~   ~~2~~   ~~3~~   4   ~~5~~   6
    total =   ~~0~~   ~~2~~   4   ~~6~~   8   ~~10~~   12

    The product is 12.