

Name: _____

CS422 Homework #4

Turn in to the TAs by 5:00 P.M. Friday, March 14th

You have been hired by an ISP that owns address block 128.196.0.0/16, and you need to assign CIDR blocks to customers.

1. If a customer needs 147 hosts addresses, what block do you assign to the customer? (Use CIDR notation.)
2. In dotted decimal notation, what address mask does the customer use when configuring its routers?
3. In dotted decimal notation, what are the lowest and highest host addresses the customer can use?
4. If a second customer needs 200 addresses, what CIDR block do you assign? Hint: CIDR prefixes must be globally unique.
5. If a third customer needs 5 addresses, what CIDR block do you assign?