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**CS 4480 - Homework Assignment 7**

**P8**

1. n = pq = 5\*11 = 55  
   z = (p-1)(q-1) = (5-1)(11-1) = 40
2. Because 3 is less than 5 (n), and has no common factors with 40 (z).
3. d = 27 (because 3\*27 = 81 mod 40 = 1)
4. c = me mod n  
   c = 83 mod 55  
   c = 512 mod 55  
   c = 17

**P15**

Authentication between two people with a third impersonator

**P17 (using Figure 8.21)**

confidentiality, authentication, and integrity with PGP (hhhhh)

**P19**

Wireshark packet sniff questions (SSL records; Master Secrets)

**P22**

IPsec

**P25**

filter and connection table for stateful firewall