Q: Jenifer 
$$\frac{p=7}{M=24}$$
 Ted  
 $e=13$   
 $d=37$ 

Ted will send C=57 to Jonifer

2 When Jenifor receives the encrypted message I2, she uses her private key d=37 to decode it.

 $= 52^{37} \mod 77$   $= (52)^{2} \times 52 \mod 77$   $= 6^{12} \times 52 \mod 77$   $= (6^{6})^{2} \times 52 \mod 77$   $= 71^{2} \times 52 \mod 77$  = 24

which in this case is Y

- 3 If Jenifer choose, publick keye=2

  then this will not be RSA, because in Ry
  e (public key) must be ralatively prime to s(n)
  and less than \$(a)
- Thus, Jenifer cannol choose public key e=2, as this will not ful fil the required condition for RSA algorithm