## H.W

1.Determine each of the following greatest common divisors. Which of the pairs are relatively prime?

- $\operatorname{gcd}(6,15)$
- $\operatorname{gcd}(8,17)$.
- $\operatorname{gcd}(24,138)$.
- $\operatorname{gcd}(12378,3054)$.

2. Find the multiplicative inverse of 37 modulo 3120.
3. Does 24 have a multiplicative inverse modulo 138 Explain.
4. What integers modulo 16 have multiplicative inverses? Determine the inverses.
