Public Key Encryption: Part 1 (for self-study)

- 1. Write the following composite numbers as a multiplication of their prime factors.
 - (a) 72
 - (b) 111
 - (c) 1024
- 2. Complete the following modular arithmetic operations and determine the result:
 - (a) $(32 + 18) \mod 7$
 - (b) $(12 \times 8) \mod 7$
 - (c) $(56 + 125) \mod 11$
 - (d) $(33-45) \mod 9$
 - (e) $100^4 \mod 7$
 - (f) $10^{-1} \mod 31$
 - (g) $13^{-1} \mod 19$
- 3. Using the "Square and Multiply" modular exponentiation algorithm calculate the following:
 - (a) 8⁵⁷ Adsignment Project Exam Help

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