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â€¢ cryptography, which concerns itself with the secrecy system itself and its design, and â€¢ cryptanalysis, which concerns itself with the breaking of the secrecy system above. Most of us associate cryptography with the military, war, and secret agents. And, indeed, those areas have seen extensive use of cryptography.

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**Answers to the Exercises - Introduction to Cryptography**
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cryptography and one deals with formal approaches to protocol design. Both of these chapters can be read without having met complexity theory or formal methods before.

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Exercise 1.12(c) Use your program to compute g=gcd(a,b) and integer solutions to the equation au+bv=g for the following pairs (a,b). (i) (527,1258) (ii) (228,1056) (iii) (163961,167181) (iv) (3892394,239847) Exercise 1.28 Compute the following ord p values. (a) Compute ord 2 (2816). (b) Compute ord 7 (2222574487).

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answers to exercises 1.1 1. zmw zugvi gsvn gsv prmt lu hsvhszxs hszoo wirmp 2. this whole land shall become a ruin and a waste 3. just as water reflects the face, so one human heart reflects another. 4. education isanornam entinpros perityand arefugein adversity 5. the scytale was an early example of a transposition cipher 6.

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-9- CHAPTER 2 SYMMETRIC ENCRYPTION AND MESSAGE CONFIDENTIALITY ANSWERS TO QUESTIONS 2.1 Plaintext, encryption algorithm, secret key, ciphertext, decryption algorithm. 2.2 Permutation and substitution. 2.3 One secret key. 2.4 A stream cipher is one that encrypts a digital data stream one bit or one byte at a time. A block cipher is one in which a block of plaintext

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come up with in the solution to play some role later, be satisï¬•ed that you are beginning to get the essence of how mathematics develops. We hope that we can illustrate that mathematics is a building, where results are built

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