**Maplet Exercises for Shift and Affine Ciphers**

1. Encrypt the plaintext message

**THE TROUBLE WITH DOING SOMETHING RIGHT THE FIRST TIME IS THAT NOBODY APPRECIATES HOW DIFFICULT IT WAS**

using a 13 shift cipher.

2. Decipher the message

**SRJJBZRANQZVGGURVENTRSRJZRANPGGURVEF**

that was encrypted using a 13 shift cipher.

3. Use a 18 shift cipher to encrypt the plaintext message

**BARNEY RUBBLE TOLD FRED FLINTSTONE THAT RICH PEOPLE HAVE THEIR PROBLEMS TOO**

4. Decrypt the ciphertext message

**ZLYXZFCHNMNIHYLYJFCYXNIVULHYSNBUNIHYJLIVFYGLCWBJYIJFYXIHINBUPYCMGIHYS**

which was encrypted using a 20 shift cipher.

5. Cryptanalyze and decipher the ciphertext message

**JXUYDLUDJYEDEVRQIAUJRQBBMQIDEJQDQSSYTUDJYJMQITULUBEFUTJECUUJQDUUTJXEIUREOIIYCFBOMEKBTDEJFBQOTHEFJXUXQDTAUHSXYUV**

that was encrypted using a shift cipher.

6. Cryptanalyze and decipher the ciphertext message

**AMLDGBCLACAMKCQDPMKFMSPQYLBBYWQYLBUCCIQYLBWCYPQMDAMLQRYLRUMPIYLBBCBGAYRGML**

that was encrypted using a shift cipher.

7. Cryptanalyze and decipher the message

**IWXCV HIWPI WJGIX CHIGJ RI**

that was encrypted using a shift cipher.

8. Use the affine cipher *y* = (15*x* + 24) mod 26 to encrypt the plaintext message

**MOST OF THE IMPORTANT THINGS IN THE WORLD HAVE BEEN ACCOMPLISHED BY PEOPLE WHO HAVE KEPT ON TRYING WHEN THERE SEEMED TO BE NO HOPE AT ALL**.

9. Use the affine cipher *y* = (23*x* + 9) mod 26 to encrypt the plaintext message

**RADFORD UNIVERSITY WAS FOUNDED IN THE YEAR NINETEEN HUNDRED AND TEN**.

10. Decipher the ciphertext message

**TYBJZOJLRMJQRLJVRMJNBJZOJLRSMRGTSPOTSBSMPSHRRQLOTYRVJGTCFBJZOJLRSMPSDJZEPFRSJWRSMPSXZPOTSBSMPSMROQLBJZFJJCTCLQTSRJYTSPOOPCKLJSJKPBTLSTOOMPGRPKERPV**

which was encrypted using the affine cipher *y* = (7*x* + 15) mod 26.

11. Decipher the ciphertext message

**DCCDEDPGZDQHADABTQZMBOHZARFDHUJTQIBIZQAGBRBDOBZNGAABBQGTQIOBIDQIQZQBARQZQB**

which was encrypted using the affine cipher *y* = (19*x* + 3) mod 26.

12. Cryptanalyze and decipher the ciphertext message

**WJMRJCJPPCQFZVEWJMRJCJPFZMZELRZEAZMSLJCEVEPEZVNCEJKEAZXVZUPMPEZQJCZJRAEZZCVJOEXEAMZZ**

that was encrypted using a affine cipher.

13. Cryptanalyze and decipher the ciphertext message

**HXOXAUXOEHVOCGOCEHSRHXOMAEEAEEAVVABANOBAEMSKPHMAHIXOJJJSICHOLAPHXOQOEHOBPVCBHSRHXOPSBHXICBSJAPCMSKPHCAPE**

that was encrypted using a affine cipher.

14. Cryptanalyze and decipher the ciphertext message

**NPUCXRAJUTUALJCJKPRCALLJUXYUXLJCSIPBRLICDTBKUXULAXILAIMCLJUXYOIWBCKPXUXAGJIIBVWLUNOIWJKHCXLBCKPXCRLJCMCKXUXYINNPUCXRAJUTOIWPCKBBOJKHCXLBCKPXCRKXOLJUXY**

that was encrypted using a affine cipher.

15. Cryptanalyze and decipher the ciphertext message

**KHMXNFWNBSWXPHCNSHMPNSZLOULKSWPHKLMNUHHUGKNPWDLUGNBPHCNSHMPNSZLOANKFNUNH**

that was encrypted using a affine cipher.