

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## More Intense Cipher Model Using Algebra

**Use  $c=3p+1$  for these problems:**

Encipher these messages using the equation above:

1. HEIDI LOVES CALCULUS
2. THINK OUTSIDE THE BOX
3. PENCIL CASES ARE USEFUL
4. I NEED A HAIRCUT
5. MY DOG TAKES PROZAC

Decipher these messages using the equation above:

1. HBQMKP YDF NDQX GTTHF
2. JYTJKDIP BF RTQMPCSLK
3. FYTWM IBK XTL MCTW
4. JDSQI RDBI STC WCTN
5. NX JTSSPP NLV BF VCPPQ

Answer Key:

Encipher

1. YPBMB KTOPF JDKJKLF
2. IYBQH TLIFBMP IYP GTU
3. WPQJBK GCVF DCP LFPSLK
4. B QPPM D YDBCJLI
5. NX MTV IDHPF WCTADJ

Decipher

1. KINDLE HAS MANY BOOKS
2. CHOCOLATE IS WONDERFUL
3. SHOP TIL YOU DROP
4. CANT WAIT FOR PROM
5. MY COFFEE MUG IS GREEN