1.25

a).

183 in binary = 10110111

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X |  |  |  |  |  |  |
| X(mod 256) | 17 | 33 | 65 | 1 | 1 | 1 |

17\*33\*65\*1\*1\*1 (mod 256) = **113**

b.)mod(1000)

477 in binary = 111011101

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| X |  |  |  |  |  |  |  |
| X(mod 256) | 2 | 16 | 256 | 536 | 616 | 456 | 936 |

2\*16\*256\*536\*616\*456\*936 (mod 1000) = **272**

c.) (mod 1237)

507 in binary = 111111011

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X |  |  |  |  |  |  |  |  |
| X(mod 256) | 11 | 121 | 388 | 867 | 830 | 1128 | 748 | 380 |

11\*121\*388\*867\*830\*1128\*748\*380 (mod 1237) = **322**