

## Repeated Division Algorithm

| <u>Quotient</u> | <u>Remainder</u> |
|-----------------|------------------|
| 311             |                  |
| 155             | 1                |
| 77              | 1                |
| 38              | 1                |
| 19              | 0                |
| 9               | 1                |
| 4               | 1                |
| 2               | 0                |
| 1               | 0                |
| 0               | 1                |

$$311_{10} = \mathbf{b1,0011,0111}$$

**Note:** This algorithm can be reversed to convert from binary to decimal!