

**3) (5 pts) ALG (Base Conversion)**

Convert  $32456_{10}$  to base 16, using A = 10, B = 11, C = 12, D = 13, E = 14 and F = 15. Put a box around your final answer.

```
16 | 32456
16 |  2028 R 8
16 |   126 R 12
16 |    7 R 14
16 |    0 R 7
```

Reading the remainders in reverse order and replacing with letters as needed, we get:

$$32456_{10} = \mathbf{7EC8}_{16}$$

**Grading:**      **0 pts if incorrect process is used.**

**Take 1 pt off per arithmetic error, capping at 5 errors.**