

## Base Conversion Activity

**Name:**

1. (15 points) Use the remainder algorithm to convert the base 10 number  $N = 2139$  to base 8. Put your steps in the table below.

N	q	r

2. (15 points) (a) Use the remainder algorithm to convert the base 10 number  $N = 137$  to base 2. Put your steps in the table below.

N	q	r

- (b) Convert the binary representation of  $137_{10}$  to hexadecimal

0	1	2	3	4	5	6	7
0000	0001	0010	0011	0100	0101	0110	0111
8	9	A	B	C	D	E	F
1000	1001	1010	1011	1100	1101	1110	1111