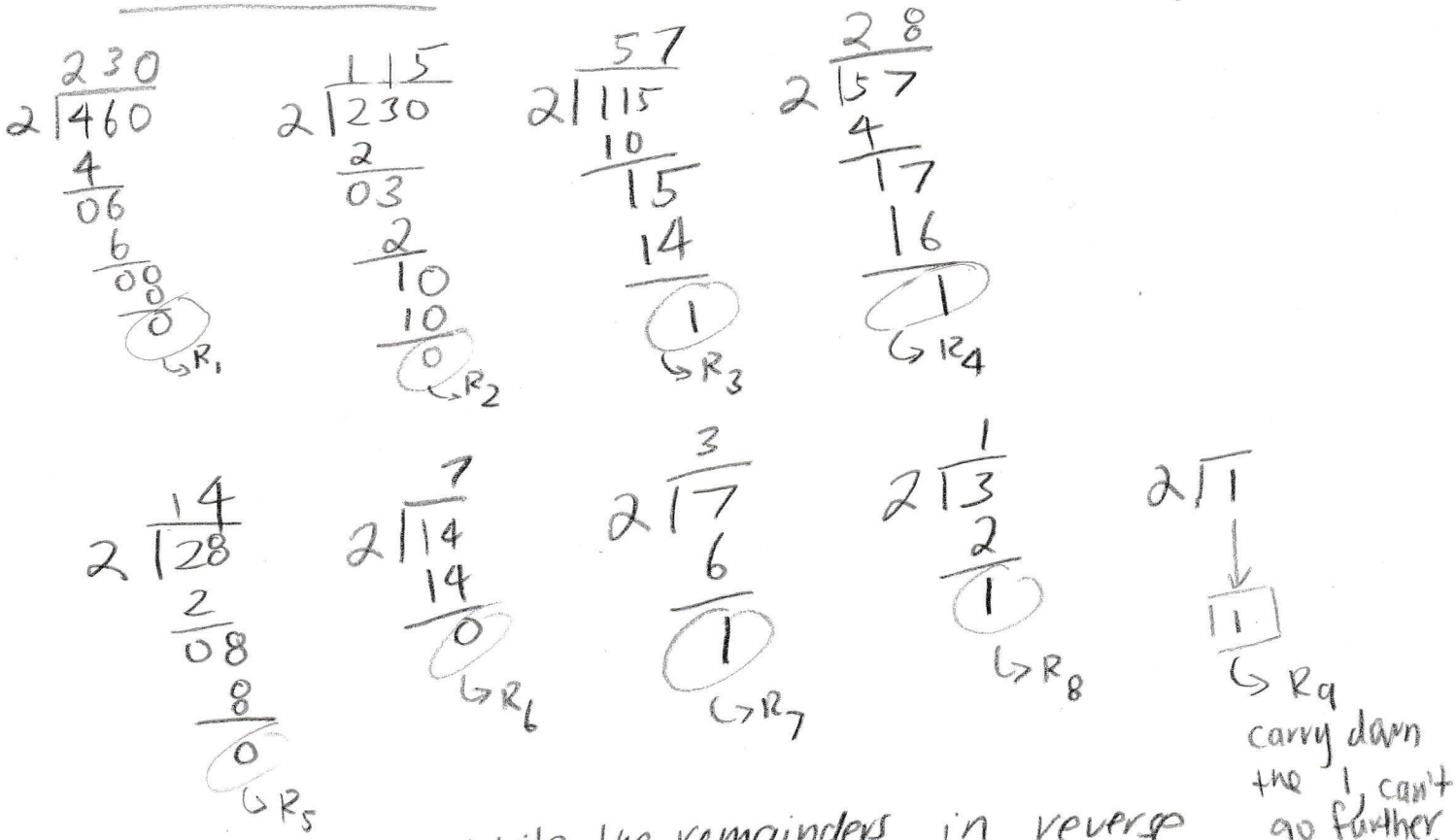
Converting an Integer to Binary:

1) Keep dividing the quotient by 2. Each time you do this, remember the remainder.

2) stop when you can no longer divide and get a whole number.

3) write the remainders of each operation in reverse order. That's your binary number

Example 1: Convert 460 to Binary



write the remainders in reverse order: $R_9\ R_8\ R_7\ R_6\ R_5\ R_4\ R_3\ R_2\ R_1$

1	1	1	0	0	1	1	0	0

Example 2: Convert 16 to Binary

$$2\overline{)16}\quad 8,\ R_1 = 0$$

$$2\overline{)8}\quad 4,\ R_2 = 0$$

$$2\overline{)4}\quad 2,\ R_3 = 0$$

$$2\overline{)2}\quad 1,\ R_4 = 0$$

$$2\overline{)1}\quad 0,\ R_5 = 1$$

Can't go further, carry down the 1.

$R_5\ R_4\ R_3\ R_2\ R_1$

1 0 0 0 0