

35 base 10 \rightarrow base 2

$$35/2 = 17 \quad = 1$$

$$17/2 = 8 \quad = 1$$

$$8/2 = 4 \quad = 0$$

$$4/2 = 2 \quad = 0$$

$$2/2 = 1 \quad = 0$$

$$1/2 = 0 \quad = 1$$

$$= 100011$$

38 base 10 \rightarrow base 6

$$38/6 = 6 \quad = 2$$

$$6/6 = 1 \quad = 0$$

$$1/6 = 0 \quad = 1$$

$$= 102$$

491 base 10 \rightarrow base 8

$$491/8 = 61 \quad = 3$$

$$61/8 = 7 \quad = 5$$

$$7/8 = 0 \quad = 7$$

$$= 753$$

720 base 10 \rightarrow base 16

$$720/16 = 45 = 0$$

$$45/16 = 2 = 13$$

$$2/16 = 0 = 2$$

$$= 2d0$$