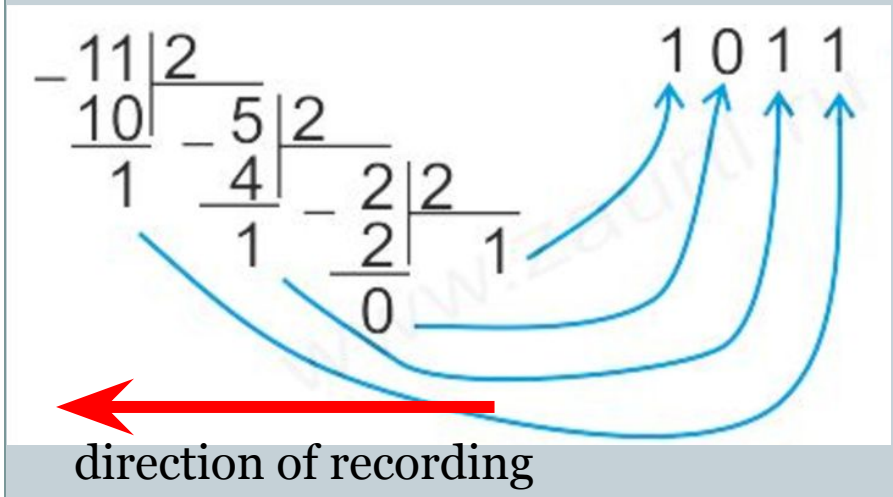
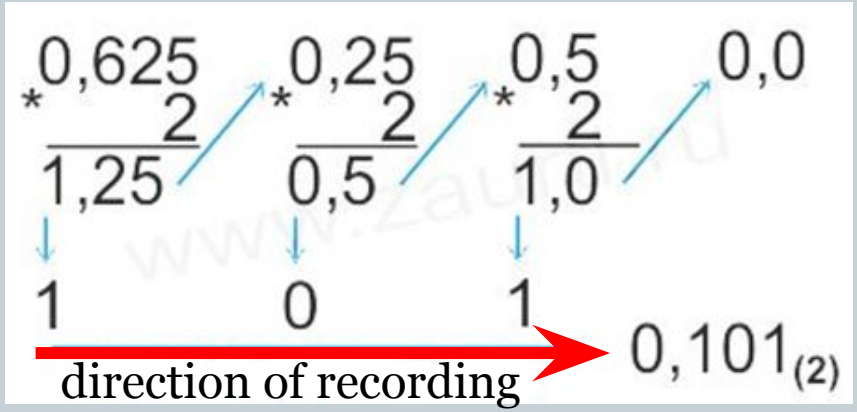
Data representation in computer systems and its architecture and components

$11{,}625_{(10)} = \ldots\ldots\ldots\ldots\ldots\ldots_{(2)}$

First step:



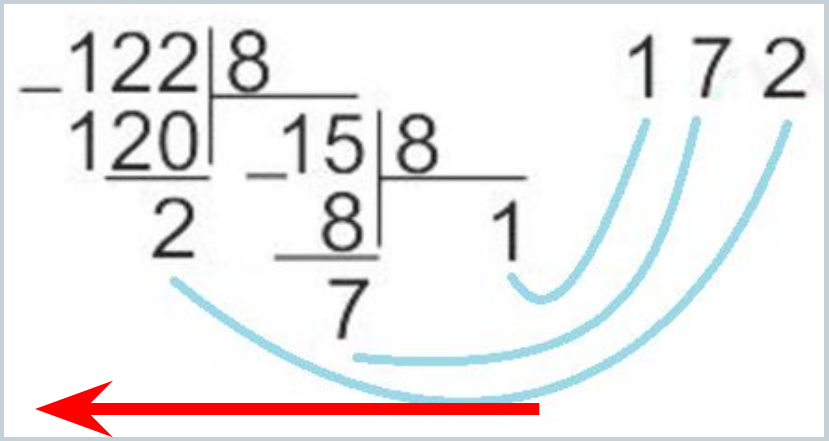
Second step:



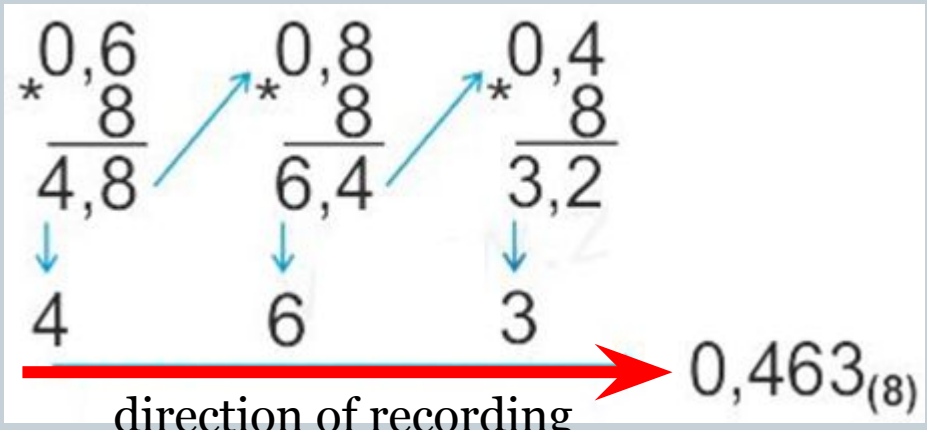
Answer: $11{,}625_{(10)} = 1011{,}101_{(2)}$

$122{,}6_{(10)} = \ldots\ldots\ldots\ldots\ldots_{(8)}$

First step:



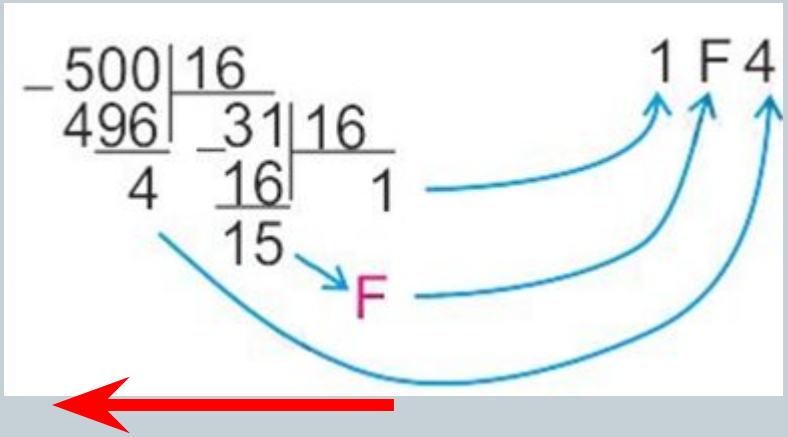
Second step:



Answer: $122{,}6_{(10)} = 172{,}463\ldots_{(8)}$

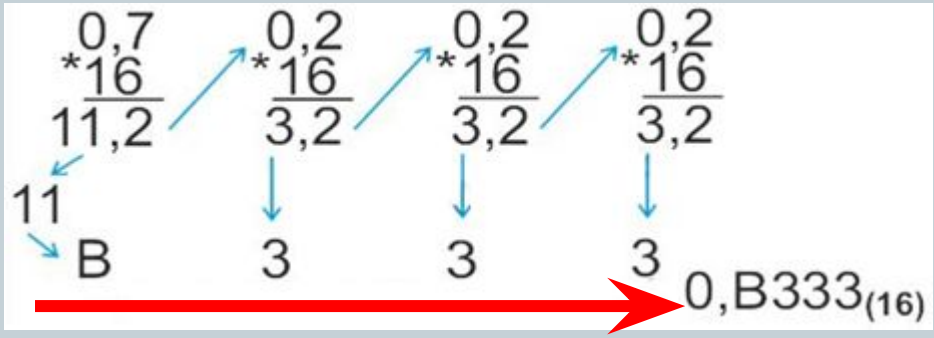
$500,7_{(10)}$=……$_{(16)}$

First step:



direction of recording

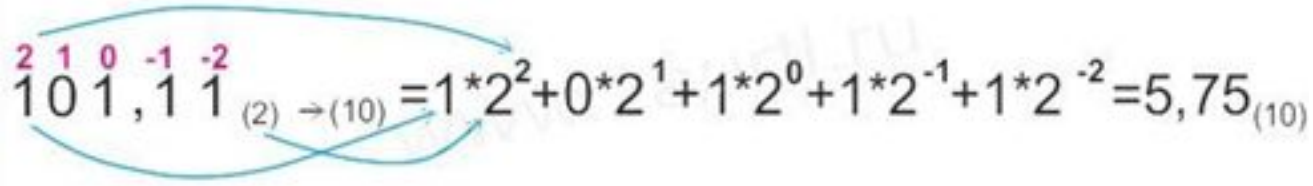
Second step:



direction of recording

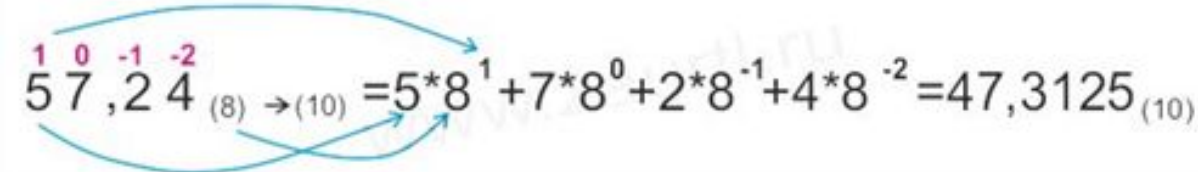
Answer: $500,7_{(10)}$= 1F4,B333…$_{(16)}$

1. Converting binary to decimal



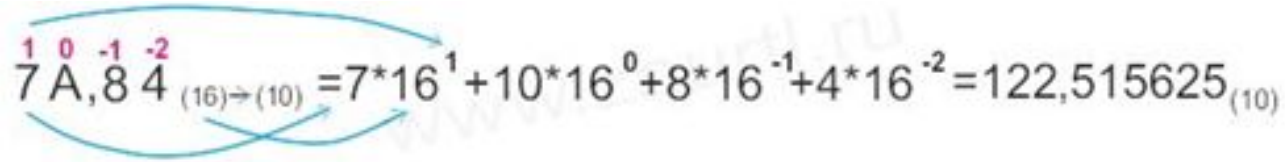
Answer: $101,11_{(2)} = 5,75_{(10)}$

2. Converting octal to decimal



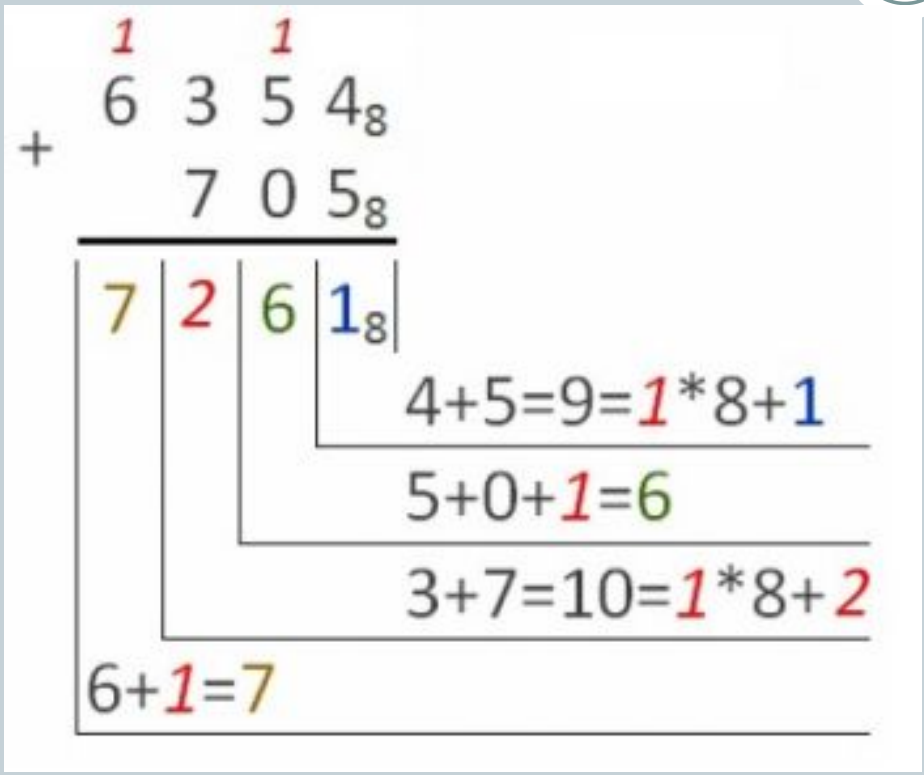
Answer: $57,24_{(8)} = 47,3125_{(10)}$

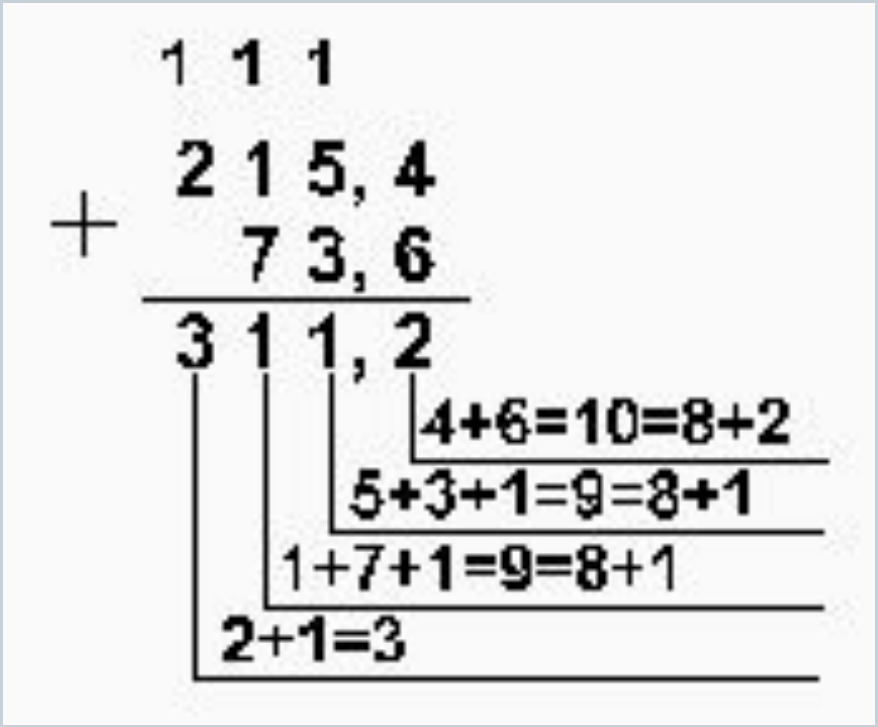
3. Converting hexadecimal to decimal



Answer: $7A,84_{(16)} = 122,515625_{(10)}$

Addition of two numbers in octal

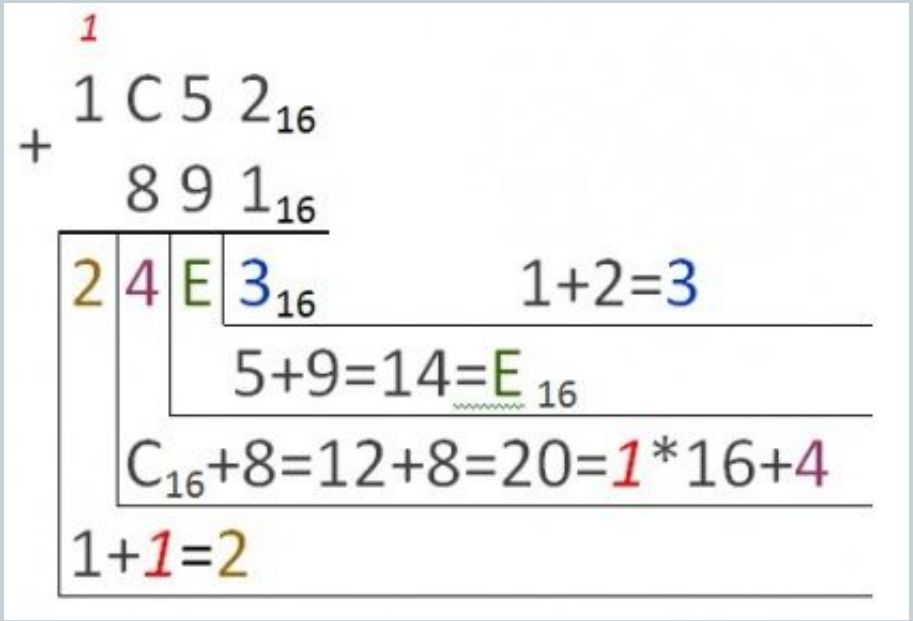




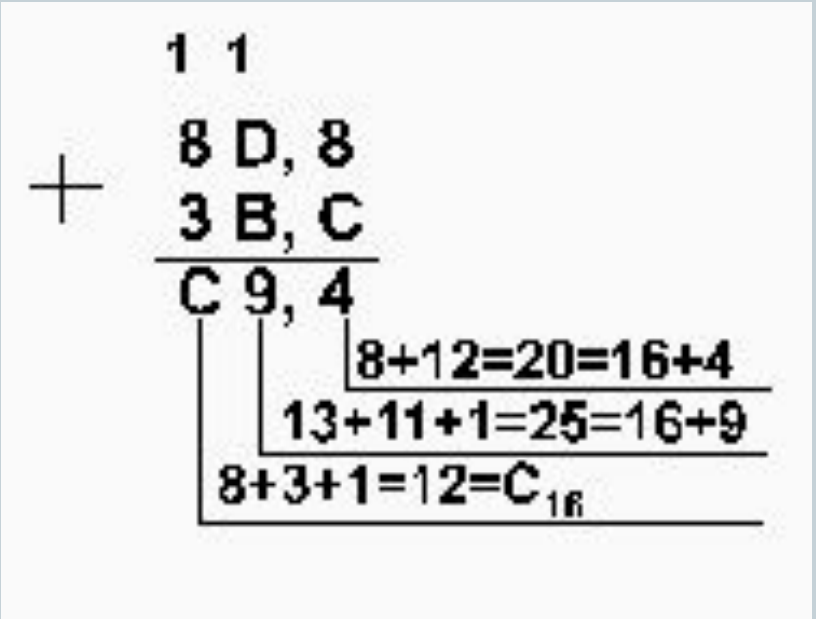
Answer: $6354_{(8)} + 705_{(8)} = 7261_{(8)}$

Answer: $215{,}4_{(8)} + 73{,}6_{(8)} = 311{,}2_{(8)}$

Addition of two numbers in hexadecimal



Answer: $1C52_{(16)} + 891_{(16)} = 24E3_{(16)}$



Answer: $8D,8_{(16)} + 3B,C_{(16)} = C9,4_{(16)}$