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Divide problem 3.18
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the numbers are

74 = 111 100

21 = 010 001

So, the starting divisor is

010 001 000 000

and the starting remainder is

000 000 111 100

7 iterations (6+1). To represent negative remainders

Use two's complement.

The resulting quotient and remainder are

Quotient = 000 011 = 3<sub>eight</sub>

Remainder = 001 001= 11<sub>eight</sub>