

A screenshot of a math test

Description automatically generated

A math problem with numbers and symbols

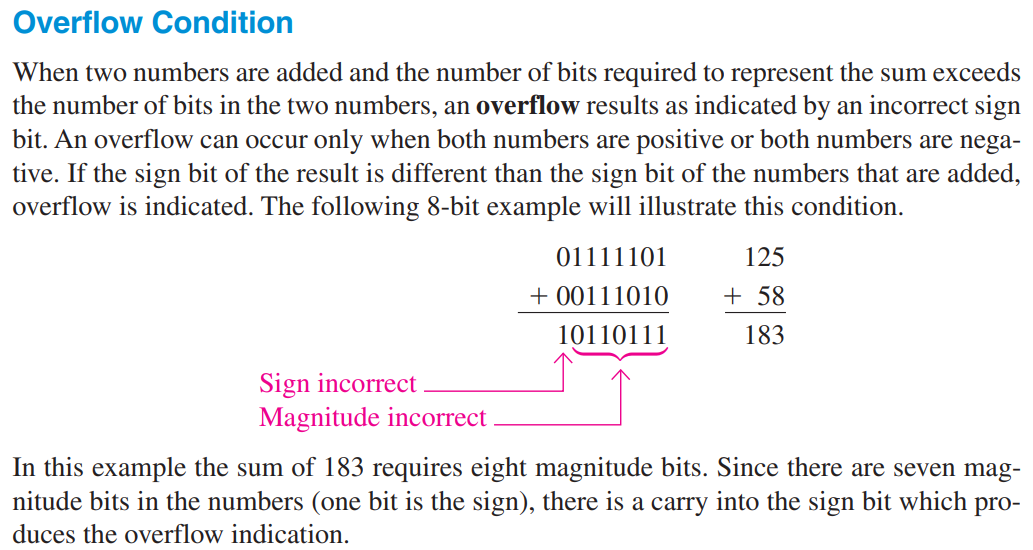
Description automatically generated

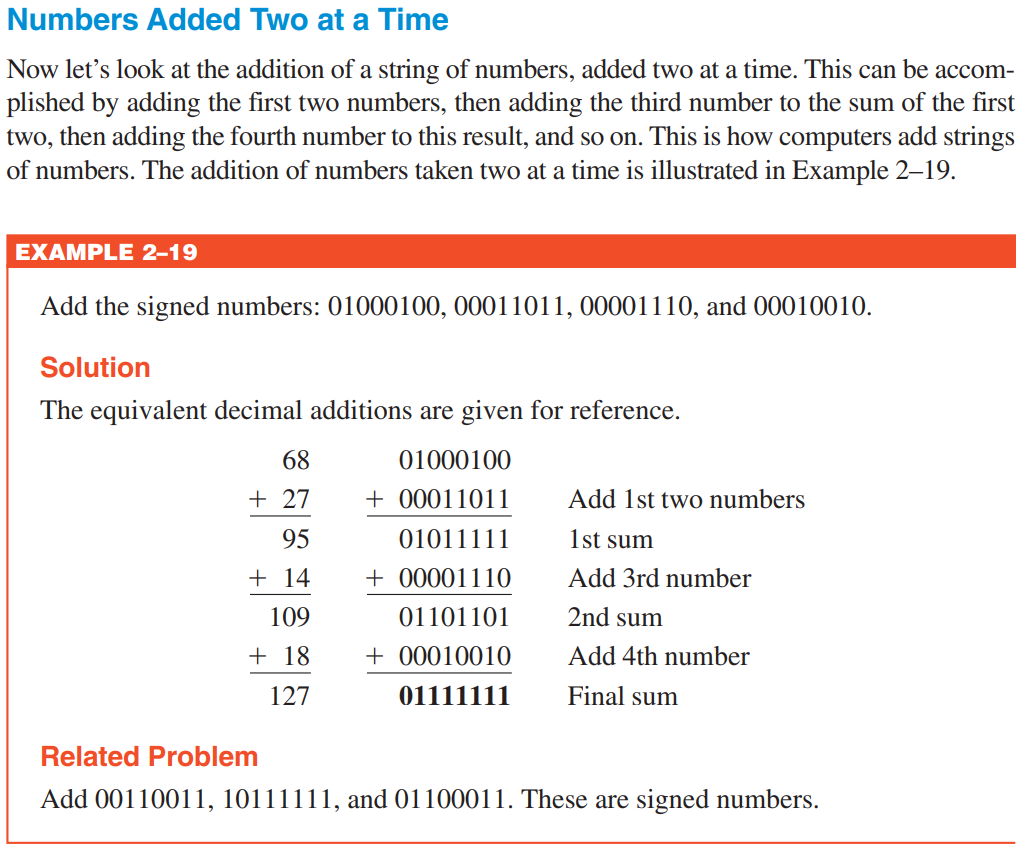
A number and a number

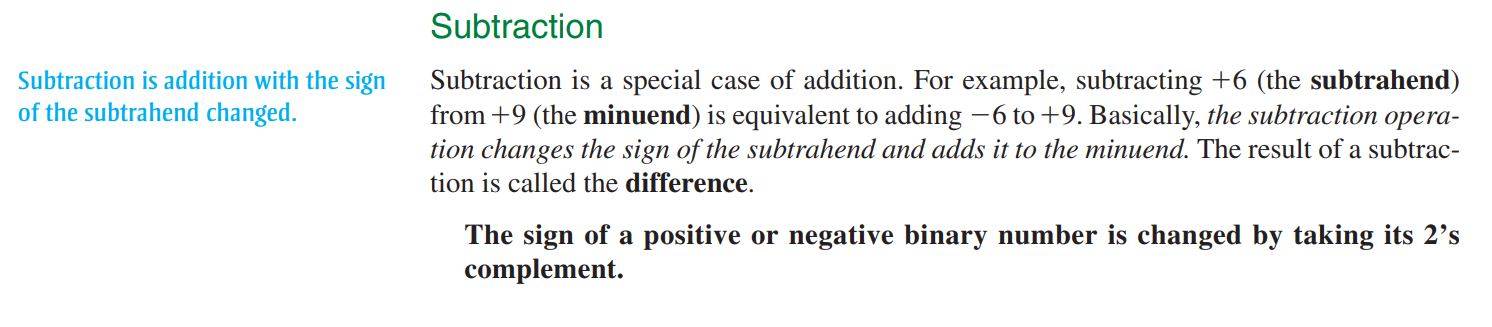
Description automatically generated with medium confidence

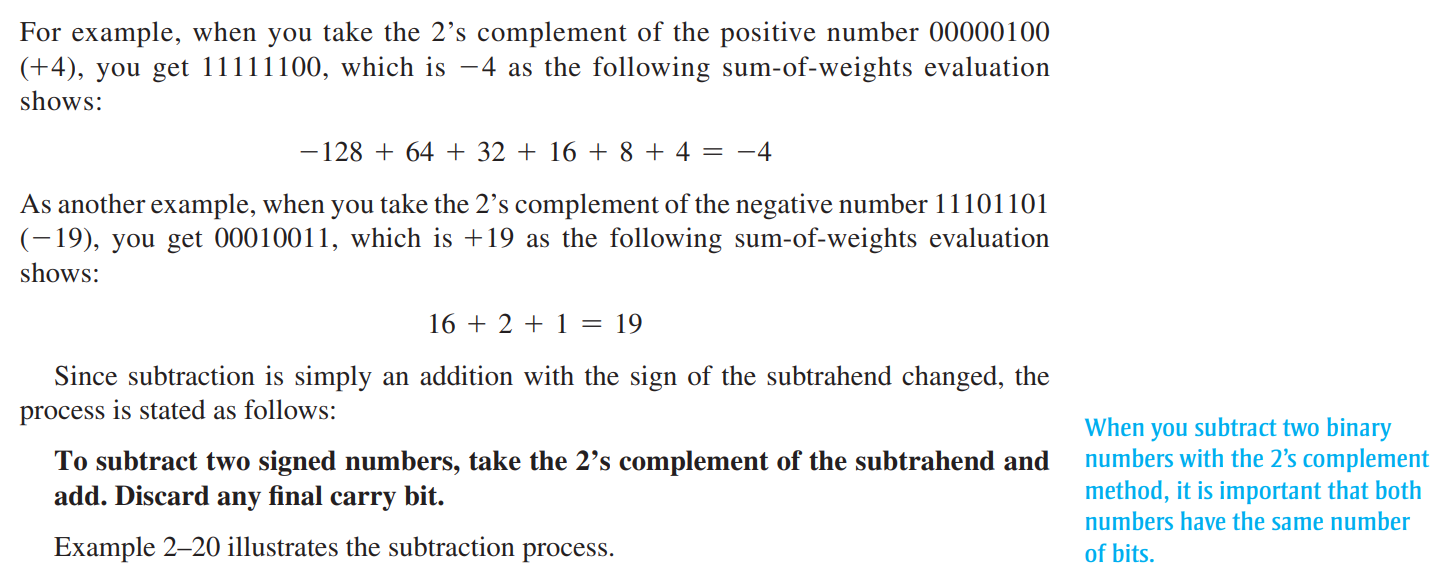
A math problem with numbers and arrows

Description automatically generated with medium confidence



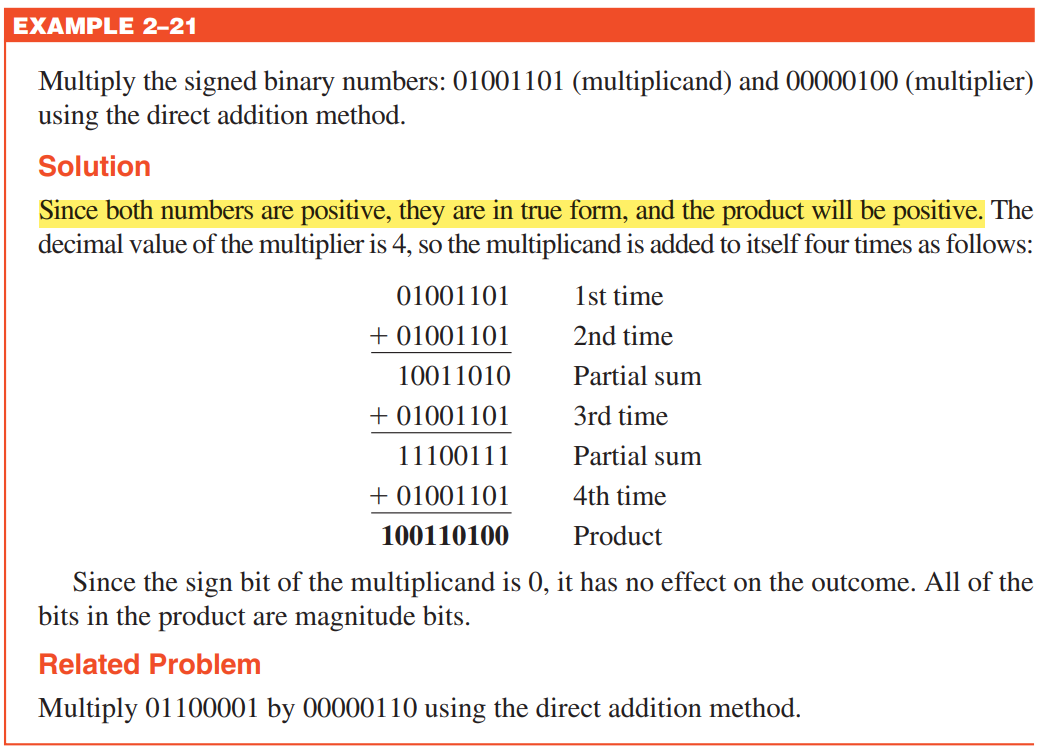


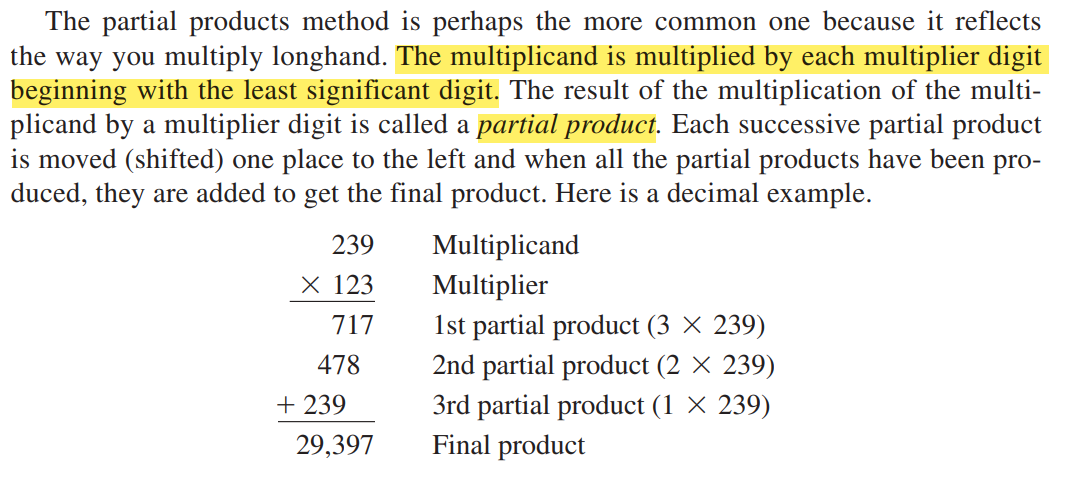


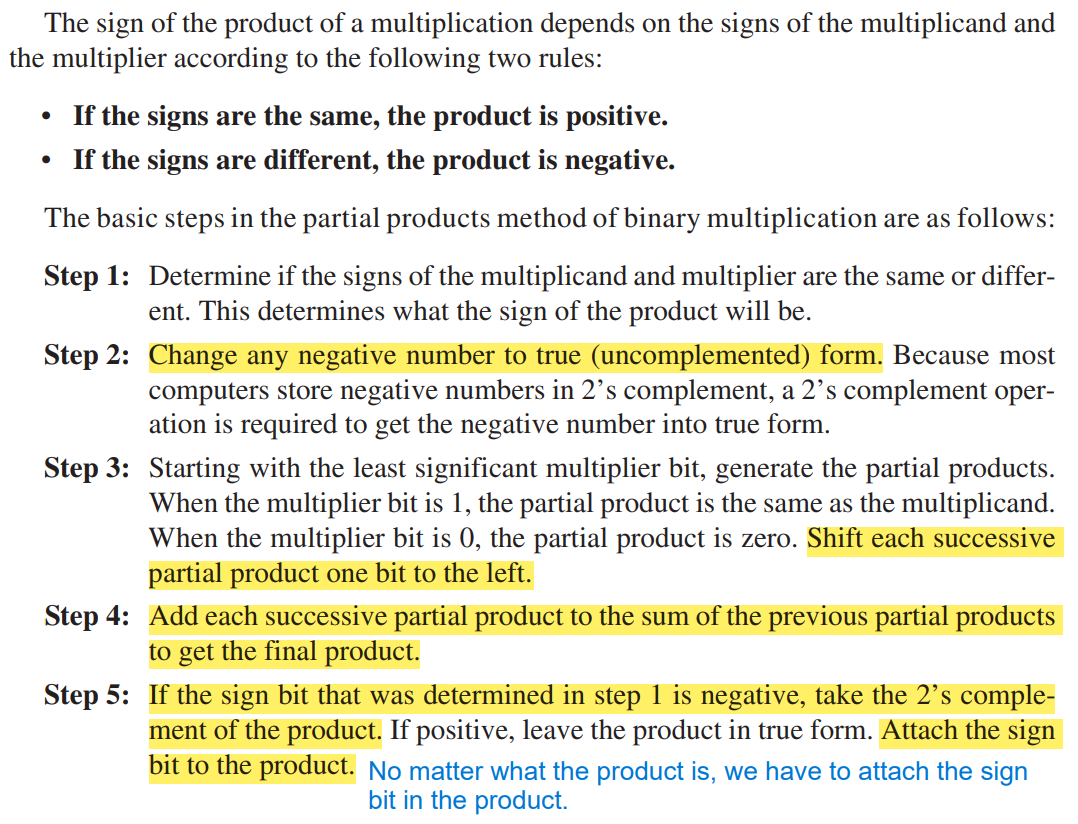


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A screenshot of a math problem

Description automatically generated

A screenshot of a computer code

Description automatically generated

Related Problem: (11000101 = -60) The answer is wrong, because it only took 1’s compliment and did not took 2’s compliment to make the negative number into its true (uncomplimented) form.

Correct answer:

A number of numbers and symbols

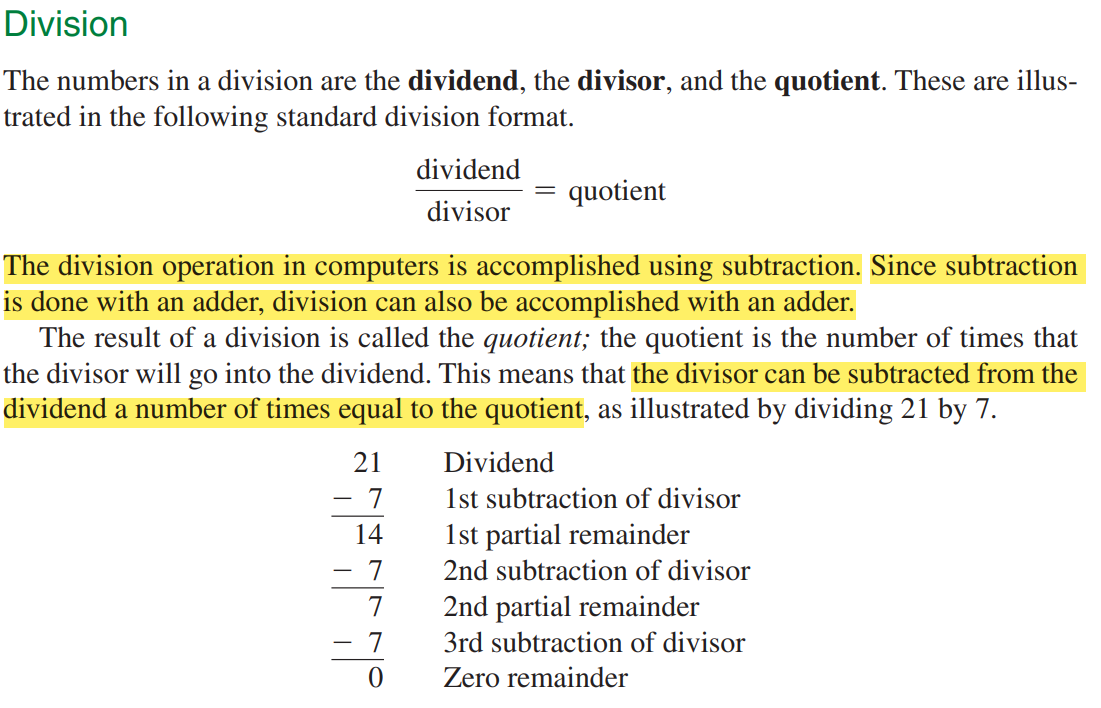
Description automatically generated with medium confidenceMultiplication after taking 2’s compliment of the multiplier and then using only magnitude bits to perform partial product. Add after each bit is multiplied. Start next bit multiplication with one bit shifted to the left.

Now take the 2’s compliment of the final product and attach the sign bit in the product.



2’s Compliment and then sign bit attached in the final product: 10110010001100

Weight of the final product: -8192+2048+1024+128+8+4 = -4980



A screenshot of a text

Description automatically generated

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