## Subtracting Negative Numbers

I know $8+5=13$
but why does $8--5=13$ as well ?

Suppose John has $£ 13$ plus a bill for $£ 5$ (repairs to his bike). He effectively has $£ 8$ net, because at sometime he has to pay the bill.

Now if

a) Rich Uncle George gives him $£ 5$; he can pay the bill and still have $£ 13$ in his pocket. or

b) Generous Aunt May could say "Let me have that bill for $£ 5$, John, l'll pay it for you", in which case he again has $£ 13$ in his pocket.

Uncle giving him $+£ 5$ (the note) or Auntie taking away - $£ 5$ (the bill) has the same end result - John has $£ 13$ left to spend on himself.

