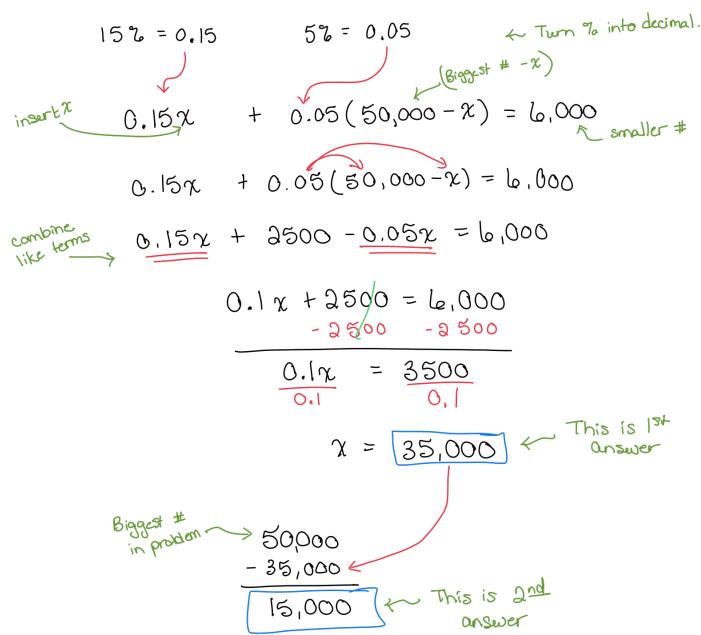
1. Betsy, a recent retiree, requires \$6000 per year in extra income. She has \$50,000 to invest and can invest in B-rated bonds paying 15% per year or in a certificate of deposit (CD) paying 5% per year. How much money should be invested in each to realize exactly \$6000 in interest per year?



2. A bank loaned out \$17,000, part of it at a rate of 9% per year and the rest at 19% per year. If the interest received in one year totaled \$2500, how much was loaned at 9%?

9% = 0.09

19% = 0.19

(Biggest # -
$$\chi$$
)

insert χ

0.09 χ

+ 0.19(17,000- χ)

smaller #

0.09 χ

+ 3230 - 0.19 χ

= 2500

0.1 χ

0.1 χ