Question:

Gretchen has 110 coins. There are 30 more gold coins than silver coins. How many gold coins does Gretchen have?

Reasoning + Answer:

<think>There are x silver coins, then there are $x + 30$ gold coins. There are a total of $x + (x + 30) = 110$ coins which simplifies to $2x + 30 = 110$. Solving $2x + 30 = 110$ by subtracting 30 from both sides yields $2x = 80$. Dividing $2x = 80$ by 2 on both sides yields $x = 40$. There are 40 silver coins and $40 + 30 = 70$ gold coins.</think>