**Type 1** (Killer Heuristic Question)

Kenji bought three times as mang badges as toy cars and spent $144 in total. He spent $84 more on toy cars than on badges. Given that a toy car cost $10.40 more than a badge, what was the cost of a badge?

**Type 2** (Killer Heuristic Question)

Donna had some candies. She kept half of the number of candies plus 3 candies. She gave the remaining candies to Jane. Jane ate $\frac{1}{3}$ of the candies plus 4 candies. Then Jane gave the remaining candies to Kate. Kate ate $\frac{1}{4}$ of the candies and had 42 candies left. How many candies did Donna have at first?

**Type 3** (Killer Heuristic Question)

Mary had $72 in her piggy bank. The coins were in a mixture of 10-cent, 20-cent and 50-cent. There were twice as many 20-cent as 50-cent coins and three times as many 10-cent coints as 50-cent coins.
    (a) How many 20-cent coins were there in the piggy bank?
    (b) Mary decided to exchange all 10-cent and 20-cent coins for 50-cent coins. How many 50-cent coins would she have after the exchange?

**Type 4** (Killer Heuristic Question)

Audrey and Belle have some money each. If Audrey spends $18 and Belle sends $24 each day, Audrey will still have $25 left when Belle has spent all her money. If Audrey spends $13 and Belle spends $30 each day, Audrey will still have $139 left when Belle has spent all her money. How much money do they have altogether?