8th grade Mathematics NAEP item

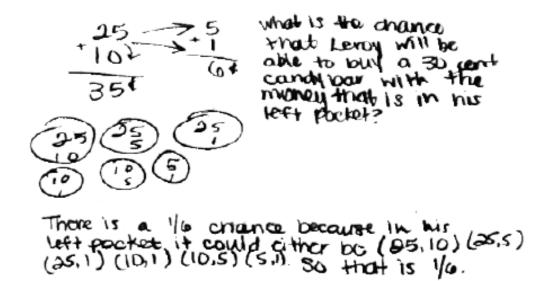
18. Leroy has one quarter, one dime, one nickel, and one penny. Two of the coins are in his left pocket andthe other two coins are in his right pocket. The coins have been randomly placed in the two pockets.

What is the probability that Leroy will be able to purchase a 30-cent candy bar with the two coins inhis left pocket?

Using the coins, explain your reasoning.

Satisfactory - Student Response

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The probability leroy will be able to purchase a 30-cent condy bor with the two coins in his left pooket is 2 out of 5. the could nake a quarter and nickel which would make him have enough money but he could also have a quarter and penny, dince and nickel, dince and penny, or a nickel and penny, or a nickel and penny in his left packet which would not be enough money.