## $8^{\text {th }}$ grade Mathematics NAEP item

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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

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

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

The probability leroy will be adele to purchase a $30^{-}$cent candy bar with the two cons in we left pocket is 2 out of 5 . He could roue a quarter and dime of a quarter and nickel which would make turn rave ersuan money but he could also nave a quarter and penny. dime and nickel, are and penny, or a nickle and penny in his left socket which wave not be eraugh money.

