

## Question:

Brittany and her mom go to the museum. The cost of admission is \$12 for adults and \$10 for children. Brittany's mom gives the cashier money for 1 child ticket and 1 adult ticket. If she received \$8 in change, how much money, in dollars, did she give the cashier?

## Reasoning + Answer:

<think> Brittany's mom paid with money for 1 child ticket (price of child ticket) + money for 1 adult ticket (price of adult ticket), which in total is equal to money that she gave the cashier - \$8 (change). That can be written as : price of child ticket + price of adult ticket = money that Brittany's mom gave - \$8 Solving the linear equation and recalling that the price of a child ticket is \$10 and the price of an adult ticket is \$12 results in the following equation :  $10 + 12 = \text{money that Brittany's mom gave} - 8$  So , money that Brittany's mom gave =  $(10 + 12) + 8 = (10 + 12) + 8 = 120 + 8 = \$128$  <answer>128</answer>

