

Shopping Spree! **Teacher**



Rusty and his mother spent money like it grew on trees. Make sure the clerk at each store charged them the correct price and that they received the correct change. You can help Rusty by completing the problems below.



1. Rusty purchased a new truck for his collection. The truck cost \$12.47 (tax included). Rusty gave the clerk \$15.00. How much change should he have received? Indicate the smallest number of coins and bills the clerk should have used to provide the correct change.



$$\begin{aligned} \$15.00 - \$12.47 &= \$2.53 \\ &3 - \text{Penny} \\ &1 - \text{Fifty-cent piece} \\ &2 - \text{One-dollar bill} \end{aligned}$$

2. The newest change counting game for Rusty's video game system was just released today! The cost of the new game, after a \$20.00 in-store rebate, was \$16.95 (tax included). Rusty gave the clerk \$20.00. Indicate the smallest number of coins and bills the clerk should have used to provide the correct change - BUT WAIT! The cash register did not have \$1.00 bills.

$$\begin{aligned} \$20.00 - \$16.95 &= \$3.05 \\ \text{Normally: } &1 - \text{Nickel} \\ &3 - \text{One-dollar bill} \end{aligned}$$

$$\begin{aligned} \text{Empty register: } &1 - \text{Nickel} \\ &6 - \text{Fifty-cent piece} \end{aligned}$$



3. Mrs. Silver Nickel purchased a tennis racket. The racket cost \$11.24. There was a 6% sales tax on all items purchased in the store. Mrs. Nickel gave the clerk \$20.00. Indicate the smallest number of coins and bills the clerk should have used to provide the correct change.

$$\begin{aligned} \$11.24 \times .06 &= \$0.67 & 4 - \text{Penny} \\ \$11.24 + \$0.67 &= \$11.91 & 1 - \text{Nickel} \\ \$20.00 - \$11.91 &= \$8.09 & 3 - \text{One-dollar bill} \\ & & 1 - \text{Five-dollar bill} \end{aligned}$$

4. Rusty stopped to top off the gas tank in his Jeep before heading to the next store. The fuel cost \$3.58/gal (tax included). Rusty pumped 3 gallons of gas; his mother gave him a \$20 bill to pay for the gas. When Rusty returned, he gave her a penny and a quarter and threw a bag of snacks in the backseat. How much money did Rusty spend on snacks?

$$\begin{aligned} \$3.58/\text{gal} \times 3 \text{ gal} &= \$10.74 \\ \$20.00 - \$10.74 &= \$9.26 \\ \$9.26 - (\text{penny} \ \& \ \text{quarter}) &= \$9.00 \text{ for snacks} \end{aligned}$$

