

# Lights Out!

## Making Change

Alvaro works part-time at a local department store. One day while he was working, his town experienced an electrical power outage because of a thunderstorm. Since the store had no backup power, the manager decided to close. Only the customers who were already in line to check out were able to do so. Alvaro, who was working as a checkout cashier, had to find the total cost of items and make change without the use of the cash register or even a calculator! Solve the following problems just like Alvaro had to.



**1** Alvaro's first customer bought a package of 12 rolls of paper towels for \$5.99 and a hairbrush for \$6.99. What was the total cost of these purchases?

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The customer paid with a \$20 bill. How much change should she receive?

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What is the least amount of bills and coins Alvaro should use to make the proper change?

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**2** Alvaro's second customer bought a small hand shovel for \$8.99, three bags of potting soil for \$1.59 each, and two flowerpots for \$4.69 each. What was the total cost of these purchases?

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The customer paid with a \$50 bill. How much change should he receive?

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What is the least amount of bills and coins Alvaro should use to make the proper change?

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**3** Alvaro's third customer bought a set of batteries for \$3.99, a box of envelopes for \$3.79, a package of loose-leaf paper for \$3.69, and a solar calculator for \$9.95. What was the total cost of these purchases?

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She paid with a \$20 bill and a \$10 bill. How much change should she receive?

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What is the least amount of bills and coins Alvaro should use to make the proper change?

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**4** Alvaro's last customer bought \$21.03 worth of items. At first the customer gave Alvaro \$30, but then he gave Alvaro \$1.03 more for a total of \$31.03. Why might he do this when the bill was \$21.03? Explain your answer on the back of this page.