

The Problem

Teresa is taking a vacation in Mexico. She wants to buy souvenirs that cost \$10.00, \$3.00, or \$0.50. If she wants to spend exactly \$100.00 and buy at least one of each type of souvenir, how many items at each price should she buy?



Strategies and Hints

1. Write at least two equations to show the relationships.
2. It may be easier to work the problem with $\$ \frac{1}{2}$ instead of \$0.50.
3. Consider only integer solutions.
4. Make a graph.
5. Try some possible combinations to see patterns.

Extension

Work the problem using souvenir prices of \$7.00, \$3.00, and \$0.25.