# **Solving Problems**

#### In Company, Intermediate

## **Problem Solving**

There is a Japanese expression: None of us is as smart as all of us.

Following this idea, one American company regularly posts questions on a bulletin board and invites its staff to brainstorm suggestions.

## Problem

For example:

In what ways, big or small, could this company save money? Write your suggestions below. \$100 bonus for all suggestions we adopt.

# Solving

The first suggestion the company got was a joke really, but it won the \$100 bonus.

The suggestion was that the bonus be reduced to \$50.

### Problem

The owner of a Mexican restaurant in San Francisco faced a dilemma. She wanted to advertise but could not afford to pay for space in the local newspaper or for airtime on the local radio station

## Solving

After many expensive and unsuccessful attempts to promote the restaurant with posters and T-shirts, the owner, Martha Sanchez, finally came up with a winner. She offered free lunches for life to anyone who agreed to have the name and logo of the restaurant tattooed on a visible part of their bodies. To date, 50 people have become walking advertisements.

#### **Framework for Problem Solving**

The following four phases can be identified in the process of solving problems:

Understanding the problem Making a plan of solution Carrying out the plan Looking back i.e. verifying

## **Understanding the Problem**

- If you do not understand the problem, you can never solve it
- If you really understand the problem, you can see a solution
- Be careful about hidden assumptions, data and conditions.
- Consult definitions for unfamiliar (often even familiar) terminologies.
- Construct one or two simple example to illustrate what the problem says.

## **Devising a Solution Plan**

- Where to start ?
- What can I do?
- Find facts that are related to the problem at
- hand. Relevant facts usually involve words
- that are the same as or similar to those in the
- given problem. It is also a good idea to try to
- recall previously solved similar problems.
- What should I look for ?

## Keep in mind that your first try may not work. But don't get discouraged. If one approach doesn't work, try another.

## **Good Luck!**

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