Additional information on Problem Solving Steps

Some problems have a DECISION to make. That is, 2 or more items to choose between. Here is an example. You must use this strategy on problems 7, 8, & 9.

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There is a new insurance program at the Company. Persons 50 and older must pay $100 per month. Persons under 50 must pay $75 per month. Read the person’s name and age. Print out the total they will pay for insurance for the year (12 months).

1. Output: Name, TotalPaid
2. Input: Name, Age
3. Formulas:
   IF Age >= 50, TotalPaid = 100 * 12
   IF Age < 50, Total Paid = 75 * 12
4. Steps in order
   Read Name, Age
   IF Age >= 50, TotalPaid = 100 * 12
   IF Age < 50, Total Paid = 75 * 12
   Print Name, Total Paid

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The State pays its employees mileage when they travel in their own cars on state business. If the employee travels less than 100 miles roundtrip, then he is paid 25 cents per mile. If the employee travels 100 miles or more roundtrip, he is paid 30 cents per mile. Input the employee name and the number of miles traveled. Print the name and the total amount paid to the employee.

1. Output: Name, Mileage
2. Input: Name, Miles
3. Formulas:
   IF Miles >= 100, Mileage = Miles * .30
   IF Miles < 100, Mileage = Miles * .25
4. Steps in order
   Read Name, Miles
   IF Miles >= 100, Mileage = Miles * .30
   IF Miles < 100, Mileage = Miles * .25
   Print Name, Mileage