

MAR 10/08

RECURSIVE - EACH ROW IS  
DEPENDENT UPON A CELL  
ABOVE IT. THIS MEANS THAT  
EACH ROW CANNOT BE  
INDIVIDUALLY CALCULATED b/c  
YOU NEED INFO THAT IS IN  
THE ROW ABOVE IT.

Example #1 - We have a rectangular sheet of cardboard, 26 cm by 20 cm available to make an open rectangular box. We cut out squares from the corners, fold up the sides and tape the edges. What are the dimensions of the box that yield the largest volume.

Example #2 - Calculate a regular interest investment called a Canada Savings Bond. \$5000 is initially invested at a rate of 2% per year. What is it worth after 5 years?

Example #3 - In 1998, the sales of a particular video game doubled every month. The game was released in May 1998 and sales that month totaled 32000 units. How many video games were sold in December 1998? How many video games were sold for the whole year?

Example #4 - A bank customer buys a \$1000 compound interest savings bond in 1997. The interest rate is 4% per year. What is the value of the bond after 3 years? Compound means that they take the interest every year and add it into the original amount.