



Who Went to the Game?

*There were 166 paid admissions to a game. The price was \$2.10 for adults and \$.75 for children. The total amount paid for tickets was \$293.25. How many adults and children attended? **

Set up your Excel worksheet to look like this:

	A	B	C	D	E
1	Total Number of People = 166				
2					
3	Adults	Children	Adult \$	Children \$	Total \$
4					
5					
6					
7					

Entering Data:

ADULTS:

Using AutoFill feature, enter the numbers **0** through **166**, starting in cell **A5**. Remember that there could be any possible number of adults.

CHILDREN:

In the children's column, enter the remaining number of tickets that could have been sold, along with the adult tickets. (HINT: the combined number of tickets must equal 166.)

Calculate:

Adult \$ should be a simple formula. Remember that the ticket price for adults is \$2.10. After you enter the formula in cell **C5**, use AutoFill to drag the formula into the entire column.

Enter the **Children \$** in the same way.

Compute the **Total \$** by adding **Adult \$** and **Children \$** together. Use AutoFill to drag the formula into the entire Total \$ column.

Conclusions:

You now have a complete **solution set**, from which you can check all possible combinations.

What is the answer to this problem?

How else could you work out this problem?

How might you change or add to this problem to get your students thinking?

*Adapted from a problem described in "Guess and Check", Leading and Learning with Technology, Vol.27, No. 5