



## You Decide Your Pay!

*Everyone has heard of this problem... would you take \$1,000,000 for 30 days of work, or start with a wage of a penny on Day 1, \$.02 on Day 2, \$.04 on Day 3, and continue doubling each day's wage for 30 days. Here's your chance to work it out. Using Excel, set up your worksheet to look like this:*

	A	B	C
1	DAY	WAGE	TOTAL
2			
3			
4			
5			
6			
7			
8			

*Entering Data:*

DAYS:

Enter **1** in cell **A3**.

Enter **2** in cell **A4**.

Now use the AutoFill function by selecting both cells, and then drag the AutoFill handle of the second cell (A4) down to 30 (stop at cell **A32**).

WAGE:

Enter **.01** in cell **B3**.

Enter a Formula in cell **B4**. It should say **=B3 \* 2** (An easy way to do this is to click on the = sign in the formula bar, then click directly on the B3 cell, then type \* 2 ). Make sure you press the check mark in the formula bar, or hit RETURN key to accept the formula. This doubles the wage from cell B3 and places it into B4.

Now, use the AutoFill function again by dragging the AutoFill handle of **B4** down to **B32**. This will continue the pattern of placing the doubled wage from the day before into the next cell.

TOTAL:

This column must show all total wages earned. In cell **C3**, enter **.01**.

In cell **C4**, enter a formula to add "Total from Day 1" to "Wage of Day 2". Click on the = sign in the formula bar, then click directly on cell **C3**, then key in the + sign, then click directly on cell **B4**. Click OK, or hit RETURN. Now us AutoFill by dragging the AutoFill handle down to cell **C32**.

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*Conclusions:*

How much would you earn in 30 days?

How many days would it take you, getting paid in this manner, to make \$1,000,000?

What would you do to find out how long it would take to become a billionaire?