

*This is a letter written for a math project. In this problem, a man named Steve is debating which electronic store he should choose to work with. The letter, the writing part of the project requires you to convince Steve why he should choose a certain store, using both mathematical and logical reasoning. This is one of my more humorous works.*

Hi Steve,

I heard you needed some guidance on what job offer you should take. It all really depends on how much of a good salesperson you are and how long you plan to stay at that job. However, I'll provide you with some important information first, and then I'll tell you my personal opinion at the end.

First off, a pro for both jobs is that their pay is consistent. This is because they both have a constant rate of change, so you can always estimate how much you are going to make. The first offer gives you \$150 off the bat, and an additional \$18 for every camera you sell. On the other hand, your second offer, from Digital Source gives you \$200 at the beginning of each week, and adds \$8 for every camera you sell.

When I graphed this, both lines were straight, which is expected because they have a linear relationship. Linear basically means that there was a constant rate of change, no random numbers were being added or subtracted. However, while I was graphing, I noticed that at one point, both offers intersect. After you sell 5 cameras, the price for both offers is equivalent. This means that eventually, you will receive the same amount of money regardless which offer you take. Yet, this only applies when you sell 5 cameras. I did some extra math and I noticed that at Best Buy, when you sell 6 cameras you earn \$258 while if you sell 6 cameras in Digital Source, you only earn \$248. That's a \$10 difference! Imagine what you could buy with \$10!

Which leads me to suggest to you that you should work for Best Buy instead of Digital Source. This is because the more effort or work you put into selling cameras, the more money you'll make. Now, if you are the type of person who doesn't like to work too much during work, (irony) then Digital Source is the right option for you. This is because you can sell 0 cameras and earn \$50 more than doing the same exact thing at Best Buy. \$50 is a lot of money. Remember when I told you to imagine what you could buy for \$10? Well imagine buying those same things five times! Granted, you should probably not sell 0 cameras because you'll be fired in maybe 2 weeks because you bring little to no benefit to your company whatsoever. Regardless, I advise you to apply for Best Buy first. This is because it offers you the opportunity to earn more money, and could snowball into making roughly \$100 more than what you can earn at Digital Source for the same amount of work.

Furthermore, outside of the concept of money, there are other additional benefits to working for Best Buy. For instance, because it is a largely recognized company, there's less of a chance of it closing down, as opposed to a smaller company like Digital Source. This is because large companies have been increasingly earning more money and power by diverting consumers to buy their products and are destroying economic diversity by putting smaller companies out of business. This will, in essence, widen the economic gap as the tech company industry will be dominated by purely large, mass-scale companies, allowing for only the richest to be the bosses, while the middle and lower class are stuck being only workers, and lost in a never ending loop primarily because it is practically impossible to run a successful small business in this dystopia.

Best Regards,  
Nodi Khan