

Hi, my name is Brittany Wallace. The goal of my presentation was to show a sketch that explores the changing of slope within an algebraic word problem. More specifically, I wanted to look at what happens to the slope when the variable changes. The basic sketch shows the change in slope (money) for every item she sells. As the variable A is slid along the x -axis a money symbol appears to show the extra two dollars earned per item sold. This sketch is different from paper because it helps to visualize the differences with interchanging x -values within the problem. Based on SMP number five I was able to use Geogebra to demonstrate a new view on a basic algebra problem that students would figure out. This makes it easier for students to visualize what they are learning. I was able to demonstrate measurements of x and y . I could show and hide the dollar symbol as A is slid along the x -axis. And the hidden attributes only show the x when it is greater than or equal to each increasing amount along the x -axis. Two other standards of Mathematical Practice that I used when creating this sketch are MP four and MP six. With MP four it helps to connect students to an idea of math being used in the real world as opposed to only in the classroom. The problem I used described having a job and earning a commission while working. MP six showed students different uses of measurement through a basic algebra problem as well as with graphical ideas. The thing I like about my project is being able to decorate and make it colorful. It felt cool to make it an organized picture, but also be able to make it something interesting for other students to use.