

INDIRECT & DIRECT VARIATION

NAME _____ Date _____ Period _____

Answer the following questions. Identify each as a direct or indirect variation. Write the equation, create a table and graph the solution.

1. Bill & Mary are buying shirts to sell at the concert. They are making 100% profit on the shirts because the shirts were donated to help these two homeless people have a hot meal. Bill and Mary are going to sell the shirts for \$7.00 each. How much will they make if they sell 2 shirts, 3 shirts, 4 shirts, 5 shirts, 6 shirts? Use this information to make your table.

No. of Shirts Sold	Money made on shirts
1	\$7.00
2	
3	
4	
5	
6	

Write your equation. _____ Is this a direct or inverse relationship. Graph your findings. Extend the line and predict how much you will make if you sell 15 shirts. Does the graph cross that number?

2. Sylvia and Boris have ordered 24 chocolate covered chocolate chip cookies. If Sylvia is watching her weight, Boris will get all of the cookies. Sylvia is not that good! She says that she and Boris will share the cookies. How many cookies will each one receive? Friends start arriving at Sylvia's house. Fill in the chart to find out how many cookies each person will get as the number of shared cookies changes.

No. of People	Cookies each
2	
3	
4	
6	
8	
12	