

### Graphing Systems Warm-up (Pizza and Water/Pizza)

1. Abbey bought two slices of pizza and three bottles of water for \$7.25. Cameron bought four slices of pizza and one bottle of water for \$8.25.

a. Write a system of equations using  $x$  and  $y$  that represents this scenario. (Remember to label your variables)

b. Rewrite these in Slope-intercept form.

c. Using a graphing calculator, find the price of one slice of pizza and the price of one bottle of water.

1. A large pizza at Palanzio's Pizzeria costs \$6.80 plus \$0.90 for each topping. The cost of a large cheese pizza at Guido's Pizza is \$7.30 plus \$0.65 for each topping. How many toppings need to be added to a large cheese pizza from Palanzio's Pizzeria and Guido's Pizza in order for the pizzas to cost the same, not including tax?