

Coupon Activity

Coupon Activity

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Summary	Students will create graphs, tables and equations to explain their stories and look at how a graph changes depending on the y -intercept.
Goals	1. Students will be able to see the connection between a change in the y -intercept and the graph's translation.
Materials	Handouts, Fake Coupon/Bills, Large Graph Paper, Poster Markers
Duration	50 minutes
Keywords	<p>Compare/Contrast Functions</p> <p>Contextualized Situations</p> <p>Full Class Discussion</p> <p>Linear Functions</p> <p>Production of Equations</p> <p>Production of Graphs</p> <p>Production of Tables</p> <p>y-intercept</p>

Activity Plan:

Give every student a coupon/bill worth different amounts and the handouts explaining about Crazy Candi's Discount Shop. (Handout Page 1-2)

Then, have students create their own graph, table, and equation to represent their story.

Have 2 pieces of large graph paper on the board, one for graphs and one for equations. When each student or group of students is done with their work, have them come to the board and record the answer for the whole class.

Raise the question: What is the same or different about all of the equations and graphs?

Discuss how every time a dollar is added or subtracted from what the person came in with, the entire graph moves up or down, respectively.

Suggestion: Revisit an equation written as $y = x + 5 + 1$

Handout: Crazy Candi's Discount Shop

(Page 1)

Name: _____ Date: _____

At Crazy Candi's, the sales practices are insane!

As each person goes into the shop, the shopkeeper (Crazy Candi) might hand him or her a piece of paper. What is on the paper? It might be good news... or it might be bad news!

If you get a piece of paper, read it and see what it says.

Now think about these questions:

Do you have a bill, a coupon, or NOTHING? If you have something, what is it worth?

Let's say x is the amount of money you had available to spend before entering the shop.

How can you show the amount of money you can spend after entering the shop and getting your bill or coupon?

List 2 ways you could show how much money you can spend.

On the next page, show the amount of money you can spend, depending on the amount you had when you went in to the shop.

Handout: Crazy Candi's Discount Shop

(Page 2)

Name: _____ Date: _____

On this page, show the amount of money you can spend after entering the shop and getting your bill or coupon.

<p>Crazy Candi's Discount Shop</p> <p>*** COUPON ***</p> <p>\$5 to spend in this store</p> <p>Today only!!!</p> <p>Shop now while the coupons are insane!!!</p>	<p>Crazy Candi's Discount Shop</p> <p>*** BILL ***</p> <p>You owe me! Your store bill is \$5.</p> <p>Pay up today!!!</p> <p>Due now because my bills are insane!!!</p>
<p>Crazy Candi's Discount Shop</p> <p>*** COUPON ***</p> <p>\$2 to spend in this store</p> <p>Today only!!!</p> <p>Shop now while the coupons are insane!!!</p>	<p>Crazy Candi's Discount Shop</p> <p>*** BILL ***</p> <p>You owe me! Your store bill is \$2.</p> <p>Pay up today!!!</p> <p>Due now because my bills are insane!!!</p>
<p>Crazy Candi's Discount Shop</p> <p>*** COUPON ***</p> <p>\$3 to spend in this store</p> <p>Today only!!!</p> <p>Shop now while the coupons are insane!!!</p>	<p>Crazy Candi's Discount Shop</p> <p>*** BILL ***</p> <p>You owe me! Your store bill is \$3.</p> <p>Pay up today!!!</p> <p>Due now because my bills are insane!!!</p>