

Lesson Plan #4—Math

Title: Deal or No Deal?

Introduction:

“Deals” are all around us with every store nearly shouting SALE wherever we turn. How do we know if the “deals” they have are really a good deal or should we say “no deal” to their offer? The old adage “buyer beware” certainly applies.

The game “Deal or No Deal” is a spoof on the popular game show where contestants guess if they think they have a good deal or not. In this game, players can actually **know** if they are getting a good deal by doing the math.

Objectives:

In this lesson, students will:

- Calculate price per unit
- Calculate percentages to determine price for sale items
- Compare prices using the information determined from calculations

Session time: 40-50 minutes

Materials:

- Deal or No Deal Scenarios (provided in this lesson)
- Deal or No Deal cards (template provided in this lesson)
- Horn to signal to intention to answer question

Methods: Teacher demonstration, cooperative learning, interactive participation, guided discussion

Procedure:

- 1) Each contestant gets one “deal” card and one “no deal” card (it’s more fun if they have a horn to blow or something to make noise to signal “no deal” but it can be played with just the cards.
- 2) The teacher or “host” asks the sample “deals” and the student then picks if it is a good deal or no deal.
- 3) This game can be played with two players with each one getting a point for a correct answer taking turns answering. It can be played with one student simply to see how many he/she can answer. Lastly, it would be fun to play with teams with everyone on the team assisting.
- 4) To put a fun spin on the game, someone could play the banker as is done on the TV version. The host can give the first deal and the banker can call in with the second deal. Anyway you choose to use it, be sure to have fun, keep it light hearted, and remember to help everyone increase awareness as consumers.

Note: This lesson is included in the workshop, **Everyday Math**, in the **SIPDC Catalog of Professional Development Opportunities**.

Deal or No Deal Scenarios

At the grocery store you buy Honey Comb on sale 3 for \$5.00. You only need one and you notice at the check out that they charge you the regular price since you only bought one.

Deal or No Deal?

At the shoe store they are running a deal of “buy one get one half price” for any shoes not originally on sale. You need shoes for each of your two kids. You have in your hand two pairs of shoes that are regularly \$40 but are each half price on sale. The clerk offered you the deal of buying each child a pair of shoes with the regular price of \$35.

Deal or No Deal?

You’re buying a new skirt that costs \$40 originally but is marked down to \$20.99 at the store. You can buy it today or the clerk offers you a deal to wait until tomorrow when it is on sale for 40% off plus an additional 10%.

Deal or No Deal?

You’re buying pizza for the kids and you have a bunch of them at your house! Dominoes has a manager’s special of two large (16 inch) 2-topping pizzas for \$16.99. The clerk on the phone offers you a deal of 3 medium pizzas (12 inch) for \$5.00 each but you must purchase at least 3 pizzas.

Deal or No Deal?

You’re buying cheese slices at the grocery store. You have a package of 24 ounces for \$3.24. Then you notice a deal for (4) 12 ounce packages for \$5.

Deal or No Deal?

You’re buying Jif peanut butter at the grocery store. You have a large jar of 28 ounces for \$4.99 in your hand since your kids love peanut butter. Then you notice a deal of (2) 18 ounce jars for \$3.00.

Deal or No Deal?

You are buying some new shoes at the mall. You have a deal of 1/3 off the original price of \$44. The clerk mentions a deal that is coming up where you can get 25% plus an extra 10% off.

Deal or No Deal?

You are at the grocery store buying juice boxes for the kids. You have picked up Hi-C 10 count package which is priced 3 for \$5.00. Then you notice a different deal of 10 count Capri Sun that is 2 for \$4.00 and you have a 75¢ coupon.

Deal or No Deal?

You are at the store and you are buying toothpaste. You have Crest 7.2 ounce tube of toothpaste for \$3.29. Then you notice a new deal of Arm & Hammer 6 ounce tube for \$1.99.

Deal or No Deal?

Deal or No Deal? (answers)

At the grocery store you buy Honey Comb on sale 3 for \$5.00. You only need one and you notice at the check out that they charge you the regular price since you only bought one.

Deal or No Deal?

NO DEAL – Be sure to check on multiple buy deals in stores because often times they don't honor them unless you buy all of the items in the special!

At the shoe store they are running a deal of “buy one get one half price” for any shoes not originally on sale. You need shoes for each of your two kids. You have in your hand two pairs of shoes that are regularly \$40 but are each half price on sale. The clerk offered you the deal of buying each child a pair of shoes with the regular price of \$30 where you can get the buy one get one half off special.

Deal or No Deal?

NO DEAL – You are buying two pairs for \$40 which are each half off – this makes your total \$40. The deal the clerk is offering is \$30 + \$15 for a total of \$45.

You're buying a new skirt that costs \$40 originally but is marked down to \$20.99 at the store. You can buy it today or the clerk offers you a deal to wait until tomorrow when it is on sale for 40% off plus an additional 10%.

Deal or No Deal?

NO DEAL – You already can buy the skirt for \$20.99. The clerk's deal is \$40 less 40% which is \$24 less an additional 10% which is \$21.6. You already have a better deal.

You're buying pizza for the kids and you have a bunch of them at your house! Dominoes has a manager's special of two large (16 inch) 2-topping pizzas for \$16.99. The clerk on the phone offers you a deal of 3 medium pizzas (12 inch) for \$5.00 each but you must purchase at least 3 pizzas.

Deal or No Deal?

DEAL! - The area of the large pizza is r^2 or $3.14 \times 8^2 = 3.14 \times 64 = 200.96$ square inches. The area for the medium pizza is r^2 or $3.14 \times 6^2 = 3.14 \times 36 = 113.04$ square inches – remember to multiply this times 3 since we're getting three – this would be 339.12 total square inches. The cost per square inch for the large deal is $\$16.99/200.96 = .08\text{¢}$ and the cost per square inch of the medium is $\$15.00/339.12 = .04\text{¢}$

You're buying cheese slices at the grocery store. You have a package of 24 ounces for \$3.24. Then you notice a deal for (4) 12 ounce packages for \$5.
Deal or No Deal?

DEAL! – Your deal currently is $\$3.24/24 = 13.5\text{¢}$ per ounce. The new deal is $\$5.00/48 = 10.4\text{¢}$ per ounce. Switch to the new deal!

You're buying Jif peanut butter at the grocery store. You have a large jar of 28 ounces for \$4.99 in your hand since your kids love peanut butter. Then you notice a deal of (2) 18 ounce jars for \$3.00.
Deal or No Deal?

DEAL! – Your current deal is $\$4.99/28 = 18\text{¢}$ per ounce. The new deal is $\$3.00/36 = 8\text{¢}$ per ounce much better!

You are buying some new shoes at the mall. You have a deal of 1/3 off the original price of \$44. The clerk mentions a deal that is coming up where you can get 25% plus an extra 10% off.
Deal or No Deal?

NO DEAL! - Your current deal is \$44 less 1/3 or $\$44 \times .67 = \29.48 . The clerk's deal is $\$44 \times .75 = \33 less another 10% or $\$33 \times .9 = \29.70 . You actually have a better deal already especially since you can have it today!

You are at the grocery store buying juice boxes for the kids. You have picked up Hi-C 10 count package which is priced 3 for \$5.00. Then you notice a different deal of 10 count Capri Sun that is 2 for \$4.00 and you have a 75¢ coupon.
Deal or No Deal?

DEAL! - Your current deal is $\$5.00/30 = 17\text{¢}$ per box. The second deal is $\$3.75 (\$4.00 - .75)/20 = 18\text{¢}$ per box. Stick with your original deal!

You are at the store and you are buying toothpaste. You have Crest 7.2 ounce tube of toothpaste for \$3.29. Then you notice a new deal of Arm & Hammer 6 ounce tube for \$1.99.

Deal or No Deal?

DEAL! – Your current deal is $\$3.29/7.2 = 46\text{¢}$ per ounce. The new deal for Arm & Hammer is $\$1.99/6 = 33\text{¢}$ per ounce. You can have clean teeth for less!

DEAL

DEAL

NO DEAL

NO DEAL